Appendix B
EAS Laboratory Reports

ENVIRONMENTAL
Analytical Service Inc.

November 28, 2011
Sample Delivery Groups (SDG): 211536

Chris Corpuz
LaCroix Davis LLC
3685 Mt. Diablo Blvd., Suite 210
Lafayette, CA 94549

Dear Chris,

Enclosed is the analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following project:

Project Name:	DGS-BOE
Project Number:	2372.02-572
Date Sampled:	11/4/11

The report consists of the following sections:

I. Sample Description
II. Laboratory Narrative and Chain of Custody Forms
III. Laboratory Certification
IV. Quality Control Reports
V. Analytical Results

If you have any questions on the report or the analytical data please contact me at (805) 781-3585.

Sincerely,

Steven D. Hoyt Ph.D.
Laboratory Director

SDH/lims

173 Cross Street, San Luis Obispo, CA 93401-7597
805.781.3585 Fax: 805-541-4550

Analytical Report

SDG Number: 211536 **Project Number:** 16337

Client: LaCroix Davis LLC **Received:** 11/9/2011

I. SAMPLE DESCRIPTION AND ANALYSIS REQUESTED

Client Sample No.	EAS Lab No.	Analysis Requested	Date Sampled
2372-21-1	211536 1	EPA TO-15 SIM	11/4/2011
2372-21-1	211536 1	EPA TO-15 Full Scan	11/4/2011
2372-21-2	211536 2	EPA TO-15 Full Scan	11/4/2011
2372-21-2	211536 2	EPA TO-15 SIM	11/4/2011
2372-21-3	211536 3	EPA TO-15 Full Scan	11/4/2011
2372-21-3	211536 3	EPA TO-15 SIM	11/4/2011
2372-21-4	211536 4	EPA TO-15 SIM	11/4/2011
2372-21-4	211536 4	EPA TO-15 Full Scan	11/4/2011
2372-21-5	211536 5	EPA TO-15 SIM	11/4/2011
2372-21-5	211536 5	EPA TO-15 Full Scan	11/4/2011
2372-21-6	211536 6	EPA TO-15 SIM	11/4/2011
2372-21-6	211536 6	EPA TO-15 Full Scan	11/4/2011
2372-21-7	211536 7	EPA TO-15 SIM	11/4/2011
2372-21-7	211536 7	EPA TO-15 Full Scan	11/4/2011
2372-21-8	211536 8	EPA TO-15 SIM	11/4/2011
2372-21-8	211536 8	EPA TO-15 Full Scan	11/4/2011
2372-21-9	211536 9	EPA TO-15 SIM	11/4/2011
2372-21-9	211536 9	EPA TO-15 Full Scan	11/4/2011
2372-21-10	211536 10	EPA TO-15 SIM	11/4/2011
2372-21-10	211536 10	EPA TO-15 Full Scan	11/4/2011
2372-21-11	211536 11	EPA TO-15 SIM	11/4/2011
2372-21-11	211536 11	EPA TO-15 Full Scan	11/4/2011
2372-21-12	211536 12	EPA TO-15 Full Scan	11/4/2011
2372-21-12	211536 12	EPA TO-15 SIM	11/4/2011
2372-21-13	211536 13	EPA TO-15 SIM	11/4/2011
2372-21-13	211536 13	EPA TO-15 Full Scan	11/4/2011
2372-21-14	211536 14	EPA TO-15 Full Scan	11/4/2011
2372-21-14	211536 14	EPA TO-15 SIM	11/4/2011
2372-21-15	211536 15	EPA TO-15 Full Scan	11/4/2011

Client Sample No.	EAS Lab No.	Analysis Requested	Date Sampled
2372-21-15	211536 15	EPA TO-15 SIM	11/4/2011
2372-21-16	211536 16	EPA TO-15 Full Scan	11/4/2011
2372-21-16	211536 16	EPA TO-15 SIM	11/4/2011
2372-2-1	211536 17	EPA TO-15 Full Scan	11/4/2011
2372-2-1	211536 17	EPA TO-15 SIM	11/4/2011
2372-2-2	211536 18	EPA TO-15 SIM	11/4/2011
2372-2-2	211536 18	EPA TO-15 Full Scan	11/4/2011
2372-2-3	211536 19	EPA TO-15 SIM	11/4/2011
2372-2-3	211536 19	EPA TO-15 Full Scan	11/4/2011
2372-2-4	211536 20	EPA TO-15 Full Scan	11/4/2011
2372-2-4	211536 20	EPA TO-15 SIM	11/4/2011
2372-2-5	211536 21	EPA TO-15 Full Scan	11/4/2011
2372-2-5	211536 21	EPA TO-15 SIM	11/4/2011
2372-2-6	211536 22	EPA TO-15 SIM	11/4/2011
2372-2-6	211536 22	EPA TO-15 Full Scan	11/4/2011
2372-2-7	211536 23	EPA TO-15 Full Scan	11/4/2011
2372-2-7	211536 23	EPA TO-15 SIM	11/4/2011
2372-2-8	211536 24	EPA TO-15 SIM	11/4/2011
2372-2-8	211536 24	EPA TO-15 Full Scan	11/4/2011
2372-2-9	211536 25	EPA TO-15 SIM	11/4/2011
2372-2-9	211536 25	EPA TO-15 Full Scan	11/4/2011
2372-2-10	211536 26	EPA TO-15 SIM	11/4/2011
2372-2-10	211536 26	EPA TO-15 Full Scan	11/4/2011
2372-2-11	211536 27	EPA TO-15 SIM	11/4/2011
2372-2-11	211536 27	EPA TO-15 Full Scan	11/4/2011
2372-2-12	211536 28	EPA TO-15 SIM	11/4/2011
2372-2-12	211536 28	EPA TO-15 Full Scan	11/4/2011
2372-2-13	211536 29	EPA TO-15 Full Scan	11/4/2011
2372-2-13	211536 29	EPA TO-15 SIM	11/4/2011
2372-2-14	211536 30	EPA TO-15 SIM	11/4/2011
2372-2-14	211536 30	EPA TO-15 Full Scan	11/4/2011
2372-2-15	211536 31	EPA TO-15 Full Scan	11/4/2011
2372-2-15	211536 31	EPA TO-15 SIM	11/4/2011

II. LABORATORY CASE NARRATIVE and CHAIN OF CUSTODY FORMS

SDG Numbers: 211536
Analysis performed for: LaCroix Davis LLC

All laboratory quality control criteria were met for the samples in this report except:

III. LABORATORY CERTIFICATION

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the condition noted above.

Steven D. Hoyt Ph.D.
Laboratory Director

ENVIRONMENTAL
Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

Project Number: 2372.02 - 572
Project Name: DGS-BOE
Quote Number:

REPORT TO:

Company: LaCroix Davis LLC
Address: 3685 Mt. Diablo Blvd. Ste 210
City/State/Zip: Lafayette CA 94549
Phone: (925) 299-1140 (FAX) 299-1185
ATTENTION: Chris Corpuz ; Ted Ice

MATRIX LEGEND
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS: TO-15	ANALYTICAL TESTS: TO-15 MVOC SIM	REMARKS	P1	P2
2372-21-1	110411	14:36	396	X			X			-28	-8	211536-1	X	X		605	946
-2		14:33	306							-23	-5	-2				777	938
-3		14:37	317							-30	-10	-3				597	942
-4		14:30	325							-30	-5	-4				581	941
-5		14:34	378							-28	-5	-5				740	945
-6		14:41	358							-30	-15	-6				596	939
-7		14:56	379							-25	-5	-7				688	951
-8		15:13	371	↓			↓			-34	-6	-8	↓	↓		651	953

COMMENTS:
FC RETURNS: 2506, 2609, 2529, 2553, 2536, 2565, 2601, 2501, 2503, 2544, 2557, 2510, 2604, 2508, 2527, 2552, 2588, 2524, 2590, 2563, 2558, 2560, 2520, 2551, 2556, 2541, 2517, 2581, 2564, 2583

BILLING INFORMATION

Company: Same as above.
Address:
City/State/Zip:
ATTENTION:
Purchase Order/Billing Reference:

		Date	Time		Date	Time
SAMPLED BY:	Chris Corpuz	110411		Received by:		
Relinquished By:	Chris Corpuz	110711		Received by:		
Relinquished By:				Received by:		
Relinquished By:				Received for lab by:	11/9/11	11:45 AM

ENVIRONMENTAL
Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

Project Number: 2372.02-572 | Project Name: DOS - BOE | Quote Number:

REPORT TO:

Company: Ladroix Davis LLC
Address: 3685 Mt. Diablo Blvd ste 210
City/State/Zip: Lafayette, CA 94549
Phone: 925-299-1140 (FAX) 925-299-1185
ATTENTION: Chris Corpuz; Ted Ice

MATRIX LEGEND
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS TO-15	TO-15 MVOC SIM	P,R P,2 REMARKS
2372-21-9	110411	14:24	389	X			X			-28	-5	2115369	X	X	563 946
-10		15:13	362							-27	-4	-10			607 949
-11		15:12	383							-25		-11			589 943
-12		15:12	330							-30	-20	-12			600 946
-13		15:32	347							-30	-6	-13			573 953
-14		15:34	393							-28	-6	-14			664 950
-15		14:59	349							-25	-16	-15			709 945
-16		15:15	368							-30	-11	-10			541 959

COMMENTS

BILLING INFORMATION

Company: Same as above
Address:
City/State/Zip:
ATTENTION:
Purchase Order/Billing Reference:

	Date	Time		Date	Time
SAMPLED BY: Chris Corpuz	110411		Received by:		
Relinquished By: Chris Corpuz	110711		Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received for lab by: Judy Day	11/9/11	11:45am

ENVIRONMENTAL
Analytical Service, Inc.

173 Cross Street
San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

Project Number: 2372.02-572 | Project Name: DOE-BOE | Quote Number:

REPORT TO:

Company: LaCroix Davis LLC
Address: 3685 Mt Diablo Blvd Ste210
City/State/Zip: Lafayette, CA 94549
Phone: 925-299-1140 (FAX) 299-1185
ATTENTION: Chris Corpuz; Ted Lee

MATRIX LEGEND
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS: TO-15	TO-15 MVOC SIM	P_1	P_2	REMARKS
2372-2-1	110411	14:47	350	X			X			-29	-8	211536-17	X	X			561 944
-2		14:48	346							-24	-11	-18					572 953
-3		14:47	933							-25	-5.5	-19					685 945
-4		15:51	336							-28	-7	-20					767 965
-5		14:50	323A							-29	-8	-21					699 948
-6		14:28	318							-30	-5	-22					034 946
-7		14:29	323							-24.5	-1	-23					-0.18 937
-8	↓	14:52	388	↓			↓			-28.5	-8.5	↓ -24	↓	↓			604 955

COMMENTS

BILLING INFORMATION

Company: Same as above
Address
City/State/Zip
ATTENTION
Purchase Order/Billing Reference

SAMPLED BY: Chris Corpuz	Date/Time: 110411	Received by:	Date/Time	
Relinquished By: Chris Corpuz	Date/Time: 110711	Received by:	Date/Time	
Relinquished By:	Date/Time	Received by:	Date/Time	
Relinquished By:	Date/Time	Received for lab by: Judy Daly	Date/Time: 11/9/11 11:45 AM	

ENVIRONMENTAL
Analytical Service, Inc.

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San Luis Obispo, CA
93401 - 7597
805.781.3585
Fax 805.541.4550

CHAIN OF CUSTODY RECORD

Project Number: 2372.02 - 572 | Project Name: DGS - BOE | Quote Number:

REPORT TO:

Company LaDoit Davis LLC
Address 3685 Mt. Diablo Blvd Ste 210
City/State/Zip Lafayette, CA 94549
Phone 925-299-1140 (FAX) 925-299-1185
ATTENTION Chris Corpuz; Ted Ioe

MATRIX LEGEND
A - Ambient Air, Low Level
I - Indoor Air
S - Source Air, High Level
G - Gas/Product

SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	CANISTER NUMBER	COMP	GRAB	MATRIX A	MATRIX I	MATRIX S	MATRIX G	INITIAL PRESSURE	FINAL PRESSURE	EAS LABORATORY ID	ANALYTICAL TESTS: TO-15	TO-15 MVOC SIM	P_1	P_2	REMARKS
2372-2-9	110411	14:52	936	X			X			-28.5	-8.5	21153625	X	X	542	950	
-10		14:42	937							-31	-7.5	-26			605	958	
-11		14:52	327							-25.5	-6.5	-27			674	945	
-12		14:47	341							-28	-6.5	-28			786	948	
-13		13:57	935							-30	-8	-29			547	938	
-14		13:52	310							-30	-11	-30			751	941	
-15	↓	13:50	343	↓			↓			-26	-2	-31	↓	↓	742	944	

COMMENTS

BILLING INFORMATION

Company Same as above.
Address
City/State/Zip
ATTENTION
Purchase Order/Billing Reference

	Date	Time		Date	Time
SAMPLED BY: Chris Corpuz	110411		Received by:		
Relinquished By: Chris Corpuz	110711		Received by:		
Relinquished By:			Received by:		
Relinquished By:			Received for lab by: Judy Cody	11/8/11	11:45 AM

IV. QUALITY CONTROL REPORT

SDG Numbers: 211536
Client: LaCroix Davis LLC

LABORATORY QC REPORT

QC NARRATIVE

Unless project specific QC was specified, these samples were analyzed with the standard EAS QC for the method as defined in the EAS Quality Manual.

STANDARD LABORATORY QC REPORT

Unless project specific QC reporting was requested, this Section contains the standard laboratory QC supplied with the analytical reports, which includes the daily method blank and the daily duplicate control samples as described below. Each day that samples are analyzed comprises a Daily Analytical Batch for a particular instrument. A Daily Analytical Batch QC report will be supplied for each method and each day samples from this SDG Group were analyzed.

METHOD BLANK

A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples. A copy of each batch Method Blank is included with the report. If a compound is detected in the Method Blank between the RL and MDL, it will be flagged with a "J". If a compound is above the RL, it will be flagged with a "B"

DUPLICATE CONTROL SAMPLES

A duplicate or duplicate control sample (DCS) was analyzed as part of each daily analytical batch. A DCS is a well-characterized matrix (blank water, ambient air, or actual sample) which may or may not be spiked and run in duplicate with your sample batch. The results are on the attached Duplicate Sample/Spike results. Precision is measured in a duplicate test by Relative Percent Difference (RPD) as in:

$$RPD = \frac{[\%\ \text{Recovery Test 1} - \%\ \text{Recovery Test 2}] \times 100}{(\text{Recovery Test 1} + \text{Recovery Test 2}) / 2}$$

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS
Analytical Method: TO15

SDG: LABQC
Laboratory ID: B11181

Description: METHOD BLANK
Can/Tube#:
QC_Batch: 111811-MSA
Air Volume: 500 ml

Date Sampled: **Time:**
Date Received: **Time:**
Date Analyzed: 11/18/11 **Time:** 13:24
Can Dilution Factor: 1.00

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.21	1.05	ND	1.04	5.19	ND	ND
74-87-3	Chloromethane	0.20	1.02	ND	0.42	2.11	ND	ND
76-14-2	Freon 114	0.21	1.04	ND	1.45	7.27	ND	ND
75-01-4	Vinyl chloride	0.21	1.04	ND	0.53	2.66	ND	ND
106-99-0	1,3-Butadiene	0.21	1.07	ND	0.47	2.37	ND	ND
74-83-9	Bromomethane	0.21	1.04	ND	0.81	4.03	ND	ND
75-00-3	Chloroethane	0.21	1.04	ND	0.55	2.74	ND	ND
64-17-5	Ethanol	0.69	3.44	ND	1.30	6.48	ND	ND
75-69-4	Trichlorofluoromethane	0.21	1.04	ND	1.17	5.84	ND	ND
67-64-1	Acetone	0.45	1.13	0.47	1.08	2.69	1.11	B
67-63-0	2-propanol	0.52	2.62	ND	1.29	6.44	ND	ND
75-65-0	t-Butanol	0.15	0.75	ND	0.46	2.28	ND	ND
4227-95-6	Methyl iodide	0.06	0.30	ND	0.35	1.75	ND	ND
75-35-4	1,1-Dichloroethene	0.40	2.02	ND	1.60	8.00	ND	ND
107-13-1	Acrylonitrile	0.23	1.16	ND	0.50	2.52	ND	ND
76-13-1	Freon 113	0.20	1.02	ND	1.56	7.81	ND	ND
107-05-1	Allyl chloride	0.18	0.89	ND	0.55	2.77	ND	ND
75-09-2	Dichloromethane	0.21	1.04	ND	0.72	3.61	ND	ND
75-15-0	Carbon disulfide	0.17	1.20	ND	0.53	3.73	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.13	0.93	ND	0.53	3.68	ND	ND
1634-04-4	Methyl tert butyl ether	0.14	0.68	ND	0.49	2.45	ND	ND
107-12-0	Propionitrile	0.19	0.95	ND	0.43	2.14	ND	ND
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	ND
108-05-4	Vinyl acetate	0.16	0.81	ND	0.57	2.85	ND	ND
78-93-3	2-Butanone	0.19	0.94	0.24	0.55	2.76	0.72	J
108-20-3	Diisopropyl ether	0.13	0.63	ND	0.52	2.62	ND	ND
110-54-3	Hexane	0.14	0.68	0.21	0.48	2.40	0.73	J
126-98-7	Methacrylonitrile	0.19	0.95	ND	0.52	2.61	ND	ND
141-78-6	Ethyl acetate	0.16	0.81	ND	0.58	2.90	ND	ND
74-97-5	Bromochloromethane	0.10	0.49	ND	0.52	2.59	ND	ND
109-99-9	Tetrahydrofuran	0.23	1.15	ND	0.68	3.39	ND	ND
78-83-1	Isobutyl alcohol	0.30	1.52	ND	0.92	4.60	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.08	ND	ND
594-20-7	2,2-Dichloropropane	0.16	0.82	ND	0.76	3.79	ND	ND
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.98	ND	ND
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.56	ND	ND
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.17	ND	ND

563-58-6	1,1-Dichloropropene	0.12	0.61	ND	0.55	2.75	ND	ND
110-82-7	Cyclohexane	0.14	0.71	ND	0.49	2.43	ND	ND
71-43-2	Benzene	0.41	1.03	ND	1.32	3.29	ND	ND
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.41	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.10	0.50	ND	0.47	2.34	ND	ND
142-82-5	n-Heptane	0.11	0.56	ND	0.46	2.29	ND	ND
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.76	ND	ND
123-91-1	1,4 Dioxane	0.38	3.76	ND	1.35	13.54	ND	ND
74-95-3	Dibromomethane	0.07	0.35	ND	0.49	2.46	ND	ND
79-01-6	Trichloroethene	0.21	1.03	ND	1.11	5.53	ND	ND
75-27-4	Bromodichloromethane	0.07	0.37	ND	0.50	2.48	ND	ND
80-62-6	Methyl methacrylate	0.12	0.62	0.16	0.51	2.55	0.67	J
108-10-1	4-Methyl-2-pentanone	0.14	0.70	ND	0.57	2.85	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	ND
108-88-3	Toluene	0.41	1.03	0.45	1.55	3.88	1.70	J
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.94	4.72	ND	ND
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.56	ND	ND
97-63-2	Ethyl methacrylate	0.11	0.55	ND	0.51	2.57	ND	ND
591-78-6	2-Hexanone	0.13	0.65	ND	0.53	2.68	ND	ND
142-28-9	1,3-Dichloropropane	0.12	0.61	ND	0.56	2.80	ND	ND
111-65-9	Octane	0.10	0.50	ND	0.47	2.34	ND	ND
124-48-1	Dibromochloromethane	0.07	0.37	ND	0.63	3.13	ND	ND
106-93-4	1,2-Dibromoethane	0.21	1.04	ND	1.60	7.99	ND	ND
127-18-4	Tetrachloroethene	0.20	1.02	ND	1.38	6.91	ND	ND
108-90-7	Chlorobenzene	0.20	1.02	ND	0.94	4.70	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.08	0.38	ND	0.52	2.62	ND	ND
100-41-4	Ethylbenzene	0.21	1.04	ND	0.90	4.52	ND	ND
1330-20-7	m,p-Xylenes	0.41	2.06	ND	1.79	8.94	ND	ND
111-84-2	Nonane	0.09	0.44	ND	0.46	2.30	ND	ND
100-42-5	Styrene	0.21	1.03	ND	0.88	4.39	ND	ND
75-25-2	Bromoform	0.05	0.25	ND	0.51	2.56	ND	ND
95-47-6	o-Xylene	0.20	1.02	ND	0.89	4.43	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.20	2.04	ND	1.40	13.99	ND	ND
96-18-4	1,2,3-Trichloropropane	0.09	0.45	ND	0.55	2.74	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.12	0.62	ND	0.63	3.17	ND	ND
95-49-8	2-Chlorotoluene	0.10	0.49	ND	0.51	2.54	ND	ND
106-43-4	4-Chlorotoluene	0.10	0.48	ND	0.50	2.48	ND	ND
103-65-1	n-Propylbenzene	0.14	0.69	ND	0.68	3.39	ND	ND
98-82-8	Isopropylbenzene	0.14	0.70	ND	0.69	3.44	ND	ND
622-96-8	4-Ethyltoluene	0.11	0.57	ND	0.56	2.79	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.21	1.06	ND	1.04	5.21	ND	ND
124-18-5	Decane	0.09	0.47	ND	0.54	2.71	ND	ND
98-06-6	tert-butyl benzene	0.12	0.61	ND	0.67	3.35	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.20	1.02	ND	1.00	5.01	ND	ND
538-93-2	i-Butylbenzene	0.12	0.61	ND	0.67	3.35	ND	ND
135-98-8	sec-butylbenzene	0.13	0.65	ND	0.71	3.57	ND	ND
541-73-1	1,3-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
99-87-6	Isopropyltoluene	0.13	0.33	ND	0.70	1.79	ND	ND
100-44-7	Benzyl chloride	0.24	1.18	ND	1.22	6.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
104-51-8	n-Butylbenzene	0.12	0.33	ND	0.66	1.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.40	2.00	ND	2.40	12.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.27	1.34	ND	2.59	12.94	ND	ND
78-00-2	Tetraethyl lead	0.10	0.48	ND	1.27	6.35	ND	ND
120-82-1	1,2,4-Trichlorobenzene	0.82	2.06	ND	6.11	15.28	ND	ND

91-20-3	Naphthalene	0.18	0.44	ND	0.92	2.31	ND	ND
87-68-3	Hexachlorobutadiene	0.41	2.06	ND	4.39	21.96	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	12.50	125	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS | **SDG:** LABQC
Analytical Method: TO15 | **Laboratory ID:** B11181

Description: METHOD BLANK | **Date Sampled:** | **Time:**
Can/Tube#: | **Date Received:** | **Time:**
QC_Batch: 111811-MSC | **Date Analyzed:** 11/18/11 | **Time:** 13:48
Air Volume: 500 ml | **Can Dilution Factor:** 1.00

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.21	0.53	ND	1.04	2.60	ND	ND
74-87-3	Chloromethane	0.20	0.51	ND	0.42	1.05	ND	ND
76-14-2	Freon 114	0.21	0.52	ND	1.45	3.63	ND	ND
75-01-4	Vinyl chloride	0.21	0.52	ND	0.53	1.33	ND	ND
106-99-0	1,3-Butadiene	0.21	0.54	ND	0.47	1.19	ND	ND
74-83-9	Bromomethane	0.21	0.52	ND	0.81	2.02	ND	ND
75-00-3	Chloroethane	0.21	0.52	ND	0.55	1.37	ND	ND
64-17-5	Ethanol	0.69	1.72	ND	1.30	3.24	ND	ND
75-69-4	Trichlorofluoromethane	0.21	0.52	ND	1.17	2.92	ND	ND
67-64-1	Acetone	0.45	0.57	0.45	1.08	1.34	1.08	
67-63-0	2-propanol	0.52	2.62	ND	1.29	6.44	ND	ND
75-65-0	t-Butanol	0.15	0.38	ND	0.46	1.14	ND	ND
4227-95-6	Methyl iodide	0.06	0.15	ND	0.35	0.88	ND	ND
75-35-4	1,1-Dichloroethene	0.40	1.01	ND	1.60	4.01	ND	ND
107-13-1	Acrylonitrile	0.23	0.58	ND	0.50	1.26	ND	ND
76-13-1	Freon 113	0.20	0.51	ND	1.56	3.91	ND	ND
107-05-1	Allyl chloride	0.18	0.45	ND	0.55	1.41	ND	ND
75-09-2	Dichloromethane	0.21	0.52	ND	0.72	1.80	ND	ND
75-15-0	Carbon disulfide	0.17	0.43	ND	0.53	1.33	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.13	0.33	ND	0.53	1.32	ND	ND
1634-04-4	Methyl tert butyl ether	0.14	0.34	ND	0.49	1.22	ND	ND
107-12-0	Propionitrile	0.19	0.48	ND	0.43	1.07	ND	ND
75-34-3	1,1-Dichloroethane	0.20	0.51	ND	0.82	2.05	ND	ND
108-05-4	Vinyl acetate	0.16	0.40	ND	0.57	1.42	ND	ND
78-93-3	2-Butanone	0.19	0.47	ND	0.55	1.38	ND	ND
108-20-3	Diisopropyl ether	0.13	0.31	ND	0.52	1.31	ND	ND
110-54-3	Hexane	0.14	0.34	ND	0.48	1.20	ND	ND
126-98-7	Methacrylonitrile	0.19	0.48	ND	0.52	1.31	ND	ND
141-78-6	Ethyl acetate	0.16	0.40	ND	0.58	1.45	ND	ND
74-97-5	Bromochloromethane	0.10	0.25	ND	0.52	1.30	ND	ND
109-99-9	Tetrahydrofuran	0.23	0.58	ND	0.68	1.70	ND	ND
78-83-1	Isobutyl alcohol	0.30	1.52	ND	0.92	4.60	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.21	0.52	ND	0.82	2.04	ND	ND
594-20-7	2,2-Dichloropropane	0.16	0.41	ND	0.76	1.89	ND	ND
67-66-3	Chloroform	0.20	0.51	ND	1.00	2.49	ND	ND
71-55-6	1,1,1-Trichloroethane	0.20	0.51	ND	1.11	2.78	ND	ND
107-06-2	1,2-Dichloroethane	0.21	0.52	ND	0.83	2.09	ND	ND

563-58-6	1,1-Dichloropropene	0.12	0.30	ND	0.55	1.38	ND	ND
110-82-7	Cyclohexane	0.14	0.35	ND	0.49	1.21	ND	ND
71-43-2	Benzene	0.41	0.52	ND	1.32	1.65	ND	ND
56-23-5	Carbon tetrachloride	0.20	0.51	ND	1.28	3.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.10	0.25	ND	0.47	1.17	ND	ND
142-82-5	n-Heptane	0.11	0.28	ND	0.46	1.15	ND	ND
78-87-5	1,2-Dichloropropane	0.21	0.52	ND	0.95	2.38	ND	ND
123-91-1	1,4 Dioxane	0.38	3.76	ND	1.35	13.54	ND	ND
74-95-3	Dibromomethane	0.07	0.17	ND	0.49	1.22	ND	ND
79-01-6	Trichloroethene	0.21	0.52	ND	1.11	2.77	ND	ND
75-27-4	Bromodichloromethane	0.07	0.19	ND	0.50	1.25	ND	ND
80-62-6	Methyl methacrylate	0.12	0.31	ND	0.51	1.28	ND	ND
108-10-1	4-Methyl-2-pentanone	0.14	0.35	ND	0.57	1.43	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.21	0.53	ND	0.96	2.40	ND	ND
108-88-3	Toluene	0.41	0.52	ND	1.55	1.94	ND	ND
10061-02-6	trans-1,3-Dichloropropene	0.21	0.52	ND	0.94	2.36	ND	ND
79-00-5	1,1,2-Trichloroethane	0.20	0.51	ND	1.11	2.78	ND	ND
97-63-2	Ethyl methacrylate	0.11	0.27	ND	0.51	1.28	ND	ND
591-78-6	2-Hexanone	0.13	0.33	ND	0.53	1.34	ND	ND
142-28-9	1,3-Dichloropropane	0.12	0.30	ND	0.56	1.40	ND	ND
111-65-9	Octane	0.10	0.25	ND	0.47	1.18	ND	ND
124-48-1	Dibromochloromethane	0.07	0.18	ND	0.63	1.57	ND	ND
106-93-4	1,2-Dibromoethane	0.21	0.52	ND	1.60	3.99	ND	ND
127-18-4	Tetrachloroethene	0.20	0.51	ND	1.38	3.46	ND	ND
108-90-7	Chlorobenzene	0.20	0.51	ND	0.94	2.35	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.08	0.19	ND	0.52	1.30	ND	ND
100-41-4	Ethylbenzene	0.21	0.52	ND	0.90	2.26	ND	ND
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.79	4.47	ND	ND
111-84-2	Nonane	0.09	0.22	ND	0.46	1.15	ND	ND
100-42-5	Styrene	0.21	0.52	ND	0.88	2.20	ND	ND
75-25-2	Bromoform	0.05	0.12	ND	0.51	1.28	ND	ND
95-47-6	o-Xylene	0.20	0.51	ND	0.89	2.21	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.20	2.04	ND	1.40	13.99	ND	ND
96-18-4	1,2,3-Trichloropropane	0.09	0.23	ND	0.55	1.36	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.12	0.31	ND	0.63	1.58	ND	ND
95-49-8	2-Chlorotoluene	0.10	0.25	ND	0.51	1.27	ND	ND
106-43-4	4-Chlorotoluene	0.10	0.24	ND	0.50	1.24	ND	ND
103-65-1	n-Propylbenzene	0.14	0.35	ND	0.68	1.70	ND	ND
98-82-8	Isopropylbenzene	0.14	0.35	ND	0.69	1.72	ND	ND
622-96-8	4-Ethyltoluene	0.11	0.28	ND	0.56	1.40	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.21	0.53	ND	1.04	2.60	ND	ND
124-18-5	Decane	0.09	0.23	ND	0.54	1.36	ND	ND
98-06-6	tert-butyl benzene	0.12	0.31	ND	0.67	1.68	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.20	0.51	ND	1.00	2.51	ND	ND
538-93-2	i-Butylbenzene	0.12	0.31	ND	0.67	1.68	ND	ND
135-98-8	sec-butylbenzene	0.13	0.33	ND	0.71	1.79	ND	ND
541-73-1	1,3-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
99-87-6	Isopropyltoluene	0.13	0.33	ND	0.70	1.79	ND	ND
100-44-7	Benzyl chloride	0.24	1.18	ND	1.22	6.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
104-51-8	n-Butylbenzene	0.12	0.33	ND	0.66	1.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.40	2.00	ND	2.40	12.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.27	1.34	ND	2.59	12.94	ND	ND
78-00-2	Tetraethyl lead	0.10	0.48	ND	1.27	6.35	ND	ND
120-82-1	1,2,4-Trichlorobenzene	0.82	2.06	ND	6.11	15.28	ND	ND

91-20-3	Naphthalene	0.18	0.44	ND	0.92	2.31	ND	ND
87-68-3	Hexachlorobutadiene	0.41	2.06	ND	4.39	21.96	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.27	103	70	130	

METHOD BLANK REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS | **SDG:** LABQC
Analytical Method: TO15 | **Laboratory ID:** B11191

Description: METHOD BLANK | **Date Sampled:** | **Time:**
Can/Tube#: | **Date Received:** | **Time:**
QC_Batch: 111911-MSA | **Date Analyzed:** 11/19/11 | **Time:** 13:12
Air Volume: 500 ml | **Can Dilution Factor:** 1.00

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.21	1.05	ND	1.04	5.19	ND	ND
74-87-3	Chloromethane	0.20	1.02	ND	0.42	2.11	ND	ND
76-14-2	Freon 114	0.21	1.04	ND	1.45	7.27	ND	ND
75-01-4	Vinyl chloride	0.21	1.04	ND	0.53	2.66	ND	ND
106-99-0	1,3-Butadiene	0.21	1.07	ND	0.47	2.37	ND	ND
74-83-9	Bromomethane	0.21	1.04	ND	0.81	4.03	ND	ND
75-00-3	Chloroethane	0.21	1.04	ND	0.55	2.74	ND	ND
64-17-5	Ethanol	0.69	3.44	ND	1.30	6.48	ND	ND
75-69-4	Trichlorofluoromethane	0.21	1.04	ND	1.17	5.84	ND	ND
67-64-1	Acetone	0.45	1.13	0.45	1.08	2.69	1.08	B
67-63-0	2-propanol	0.52	2.62	ND	1.29	6.44	ND	ND
75-65-0	t-Butanol	0.15	0.75	ND	0.46	2.28	ND	ND
4227-95-6	Methyl iodide	0.06	0.30	ND	0.35	1.75	ND	ND
75-35-4	1,1-Dichloroethene	0.40	2.02	ND	1.60	8.00	ND	ND
107-13-1	Acrylonitrile	0.23	1.16	ND	0.50	2.52	ND	ND
76-13-1	Freon 113	0.20	1.02	ND	1.56	7.81	ND	ND
107-05-1	Allyl chloride	0.18	0.89	ND	0.55	2.77	ND	ND
75-09-2	Dichloromethane	0.21	1.04	ND	0.72	3.61	ND	ND
75-15-0	Carbon disulfide	0.17	1.20	ND	0.53	3.73	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.13	0.93	ND	0.53	3.68	ND	ND
1634-04-4	Methyl tert butyl ether	0.14	0.68	ND	0.49	2.45	ND	ND
107-12-0	Propionitrile	0.19	0.95	ND	0.43	2.14	ND	ND
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	ND
108-05-4	Vinyl acetate	0.16	0.81	ND	0.57	2.85	ND	ND
78-93-3	2-Butanone	0.19	0.94	ND	0.55	2.76	ND	ND
108-20-3	Diisopropyl ether	0.13	0.63	ND	0.52	2.62	ND	ND
110-54-3	Hexane	0.14	0.68	ND	0.48	2.40	ND	ND
126-98-7	Methacrylonitrile	0.19	0.95	ND	0.52	2.61	ND	ND
141-78-6	Ethyl acetate	0.16	0.81	ND	0.58	2.90	ND	ND
74-97-5	Bromochloromethane	0.10	0.49	ND	0.52	2.59	ND	ND
109-99-9	Tetrahydrofuran	0.23	1.15	ND	0.68	3.39	ND	ND
78-83-1	Isobutyl alcohol	0.30	1.52	ND	0.92	4.60	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.08	ND	ND
594-20-7	2,2-Dichloropropane	0.16	0.82	ND	0.76	3.79	ND	ND
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.98	ND	ND
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.56	ND	ND
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.17	ND	ND

563-58-6	1,1-Dichloropropene	0.12	0.61	ND	0.55	2.75	ND	ND
110-82-7	Cyclohexane	0.14	0.71	ND	0.49	2.43	ND	ND
71-43-2	Benzene	0.41	1.03	ND	1.32	3.29	ND	ND
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.41	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.10	0.50	ND	0.47	2.34	ND	ND
142-82-5	n-Heptane	0.11	0.56	ND	0.46	2.29	ND	ND
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.76	ND	ND
123-91-1	1,4 Dioxane	0.38	3.76	ND	1.35	13.54	ND	ND
74-95-3	Dibromomethane	0.07	0.35	ND	0.49	2.46	ND	ND
79-01-6	Trichloroethene	0.21	1.03	ND	1.11	5.53	ND	ND
75-27-4	Bromodichloromethane	0.07	0.37	ND	0.50	2.48	ND	ND
80-62-6	Methyl methacrylate	0.12	0.62	ND	0.51	2.55	ND	ND
108-10-1	4-Methyl-2-pentanone	0.14	0.70	ND	0.57	2.85	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	ND
108-88-3	Toluene	0.41	1.03	ND	1.55	3.88	ND	ND
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.94	4.72	ND	ND
79-00-5	1,1,2-Trichloroethane	0.20	1.02	ND	1.11	5.56	ND	ND
97-63-2	Ethyl methacrylate	0.11	0.55	ND	0.51	2.57	ND	ND
591-78-6	2-Hexanone	0.13	0.65	ND	0.53	2.68	ND	ND
142-28-9	1,3-Dichloropropane	0.12	0.61	ND	0.56	2.80	ND	ND
111-65-9	Octane	0.10	0.50	ND	0.47	2.34	ND	ND
124-48-1	Dibromochloromethane	0.07	0.37	ND	0.63	3.13	ND	ND
106-93-4	1,2-Dibromoethane	0.21	1.04	ND	1.60	7.99	ND	ND
127-18-4	Tetrachloroethene	0.20	1.02	ND	1.38	6.91	ND	ND
108-90-7	Chlorobenzene	0.20	1.02	ND	0.94	4.70	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.08	0.38	ND	0.52	2.62	ND	ND
100-41-4	Ethylbenzene	0.21	1.04	ND	0.90	4.52	ND	ND
1330-20-7	m,p-Xylenes	0.41	2.06	ND	1.79	8.94	ND	ND
111-84-2	Nonane	0.09	0.44	ND	0.46	2.30	ND	ND
100-42-5	Styrene	0.21	1.03	ND	0.88	4.39	ND	ND
75-25-2	Bromoform	0.05	0.25	ND	0.51	2.56	ND	ND
95-47-6	o-Xylene	0.20	1.02	ND	0.89	4.43	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.20	2.04	ND	1.40	13.99	ND	ND
96-18-4	1,2,3-Trichloropropane	0.09	0.45	ND	0.55	2.74	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.12	0.62	ND	0.63	3.17	ND	ND
95-49-8	2-Chlorotoluene	0.10	0.49	ND	0.51	2.54	ND	ND
106-43-4	4-Chlorotoluene	0.10	0.48	ND	0.50	2.48	ND	ND
103-65-1	n-Propylbenzene	0.14	0.69	ND	0.68	3.39	ND	ND
98-82-8	Isopropylbenzene	0.14	0.70	ND	0.69	3.44	ND	ND
622-96-8	4-Ethyltoluene	0.11	0.57	ND	0.56	2.79	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.21	1.06	ND	1.04	5.21	ND	ND
124-18-5	Decane	0.09	0.47	ND	0.54	2.71	ND	ND
98-06-6	tert-butyl benzene	0.12	0.61	ND	0.67	3.35	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.20	1.02	ND	1.00	5.01	ND	ND
538-93-2	i-Butylbenzene	0.12	0.61	ND	0.67	3.35	ND	ND
135-98-8	sec-butylbenzene	0.13	0.65	ND	0.71	3.57	ND	ND
541-73-1	1,3-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
99-87-6	Isopropyltoluene	0.13	0.33	ND	0.70	1.79	ND	ND
100-44-7	Benzyl chloride	0.24	1.18	ND	1.22	6.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
104-51-8	n-Butylbenzene	0.12	0.33	ND	0.66	1.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.40	2.00	ND	2.40	12.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.27	1.34	ND	2.59	12.94	ND	ND
78-00-2	Tetraethyl lead	0.10	0.48	ND	1.27	6.35	ND	ND
120-82-1	1,2,4-Trichlorobenzene	0.82	2.06	ND	6.11	15.28	ND	ND

91-20-3	Naphthalene	0.18	0.44	ND	0.92	2.31	ND	ND
87-68-3	Hexachlorobutadiene	0.41	2.06	ND	4.39	21.96	ND	ND

		Spike	Measured		QC	Limits	Flag
	Surrogate Recovery	ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	10.00	10.17	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: B11191**

Description: METHOD BLANK **Date Sampled:** NA **Time:** NA
Can/Tube#: NA **Date Received:** NA **Time:** NA
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 12:22
Air Volume: 500 ml **Can Dilution Factor:** 1.00

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.21	0.53	ND	1.04	2.60	ND	ND
74-87-3	Chloromethane	0.20	0.51	ND	0.42	1.05	ND	ND
76-14-2	Freon 114	0.21	0.52	ND	1.45	3.63	ND	ND
75-01-4	Vinyl chloride	0.21	0.52	ND	0.53	1.33	ND	ND
106-99-0	1,3-Butadiene	0.21	0.54	ND	0.47	1.19	ND	ND
74-83-9	Bromomethane	0.21	0.52	ND	0.81	2.02	ND	ND
75-00-3	Chloroethane	0.21	0.52	ND	0.55	1.37	ND	ND
64-17-5	Ethanol	0.69	1.72	ND	1.30	3.24	ND	ND
75-69-4	Trichlorofluoromethane	0.21	0.52	ND	1.17	2.92	ND	ND
67-64-1	Acetone	0.45	0.57	0.45	1.08	1.34	1.08	B
67-63-0	2-propanol	0.52	2.62	ND	1.29	6.44	ND	ND
75-65-0	t-Butanol	0.15	0.38	ND	0.46	1.14	ND	ND
4227-95-6	Methyl iodide	0.06	0.15	ND	0.35	0.88	ND	ND
75-35-4	1,1-Dichloroethene	0.40	1.01	ND	1.60	4.01	ND	ND
107-13-1	Acrylonitrile	0.23	0.58	ND	0.50	1.26	ND	ND
76-13-1	Freon 113	0.20	0.51	ND	1.56	3.91	ND	ND
107-05-1	Allyl chloride	0.18	0.45	ND	0.55	1.41	ND	ND
75-09-2	Dichloromethane	0.21	0.52	ND	0.72	1.80	ND	ND
75-15-0	Carbon disulfide	0.17	0.43	ND	0.53	1.33	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.13	0.33	ND	0.53	1.32	ND	ND
1634-04-4	Methyl tert butyl ether	0.14	0.34	ND	0.49	1.22	ND	ND
107-12-0	Propionitrile	0.19	0.48	ND	0.43	1.07	ND	ND
75-34-3	1,1-Dichloroethane	0.20	0.51	ND	0.82	2.05	ND	ND
108-05-4	Vinyl acetate	0.16	0.40	ND	0.57	1.42	ND	ND
78-93-3	2-Butanone	0.19	0.47	ND	0.55	1.38	ND	ND
108-20-3	Diisopropyl ether	0.13	0.31	ND	0.52	1.31	ND	ND
110-54-3	Hexane	0.14	0.34	ND	0.48	1.20	ND	ND
126-98-7	Methacrylonitrile	0.19	0.48	ND	0.52	1.31	ND	ND
141-78-6	Ethyl acetate	0.16	0.40	ND	0.58	1.45	ND	ND
74-97-5	Bromochloromethane	0.10	0.25	ND	0.52	1.30	ND	ND
109-99-9	Tetrahydrofuran	0.23	0.58	ND	0.68	1.70	ND	ND
78-83-1	Isobutyl alcohol	0.30	1.52	ND	0.92	4.60	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.21	0.52	ND	0.82	2.04	ND	ND
594-20-7	2,2-Dichloropropane	0.16	0.41	ND	0.76	1.89	ND	ND
67-66-3	Chloroform	0.20	0.51	ND	1.00	2.49	ND	ND
71-55-6	1,1,1-Trichloroethane	0.20	0.51	ND	1.11	2.78	ND	ND
107-06-2	1,2-Dichloroethane	0.21	0.52	ND	0.83	2.09	ND	ND

563-58-6	1,1-Dichloropropene	0.12	0.30	ND	0.55	1.38	ND	ND
110-82-7	Cyclohexane	0.14	0.35	ND	0.49	1.21	ND	ND
71-43-2	Benzene	0.41	0.52	ND	1.32	1.65	ND	ND
56-23-5	Carbon tetrachloride	0.20	0.51	ND	1.28	3.21	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.10	0.25	ND	0.47	1.17	ND	ND
142-82-5	n-Heptane	0.11	0.28	ND	0.46	1.15	ND	ND
78-87-5	1,2-Dichloropropane	0.21	0.52	ND	0.95	2.38	ND	ND
123-91-1	1,4 Dioxane	0.38	3.76	ND	1.35	13.54	ND	ND
74-95-3	Dibromomethane	0.07	0.17	ND	0.49	1.22	ND	ND
79-01-6	Trichloroethene	0.21	0.52	ND	1.11	2.77	ND	ND
75-27-4	Bromodichloromethane	0.07	0.19	ND	0.50	1.25	ND	ND
80-62-6	Methyl methacrylate	0.12	0.31	ND	0.51	1.28	ND	ND
108-10-1	4-Methyl-2-pentanone	0.14	0.35	ND	0.57	1.43	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.21	0.53	ND	0.96	2.40	ND	ND
108-88-3	Toluene	0.41	0.52	ND	1.55	1.94	ND	ND
10061-02-6	trans-1,3-Dichloropropene	0.21	0.52	ND	0.94	2.36	ND	ND
79-00-5	1,1,2-Trichloroethane	0.20	0.51	ND	1.11	2.78	ND	ND
97-63-2	Ethyl methacrylate	0.11	0.27	ND	0.51	1.28	ND	ND
591-78-6	2-Hexanone	0.13	0.33	ND	0.53	1.34	ND	ND
142-28-9	1,3-Dichloropropane	0.12	0.30	ND	0.56	1.40	ND	ND
111-65-9	Octane	0.10	0.25	ND	0.47	1.18	ND	ND
124-48-1	Dibromochloromethane	0.07	0.18	ND	0.63	1.57	ND	ND
106-93-4	1,2-Dibromoethane	0.21	0.52	ND	1.60	3.99	ND	ND
127-18-4	Tetrachloroethene	0.20	0.51	ND	1.38	3.46	ND	ND
108-90-7	Chlorobenzene	0.20	0.51	ND	0.94	2.35	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.08	0.19	ND	0.52	1.30	ND	ND
100-41-4	Ethylbenzene	0.21	0.52	ND	0.90	2.26	ND	ND
1330-20-7	m,p-Xylenes	0.41	1.03	ND	1.79	4.47	ND	ND
111-84-2	Nonane	0.09	0.22	ND	0.46	1.15	ND	ND
100-42-5	Styrene	0.21	0.52	ND	0.88	2.20	ND	ND
75-25-2	Bromoform	0.05	0.12	ND	0.51	1.28	ND	ND
95-47-6	o-Xylene	0.20	0.51	ND	0.89	2.21	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.20	2.04	ND	1.40	13.99	ND	ND
96-18-4	1,2,3-Trichloropropane	0.09	0.23	ND	0.55	1.36	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.12	0.31	ND	0.63	1.58	ND	ND
95-49-8	2-Chlorotoluene	0.10	0.25	ND	0.51	1.27	ND	ND
106-43-4	4-Chlorotoluene	0.10	0.24	ND	0.50	1.24	ND	ND
103-65-1	n-Propylbenzene	0.14	0.35	ND	0.68	1.70	ND	ND
98-82-8	Isopropylbenzene	0.14	0.35	ND	0.69	1.72	ND	ND
622-96-8	4-Ethyltoluene	0.11	0.28	ND	0.56	1.40	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.21	0.53	ND	1.04	2.60	ND	ND
124-18-5	Decane	0.09	0.23	ND	0.54	1.36	ND	ND
98-06-6	tert-butyl benzene	0.12	0.31	ND	0.67	1.68	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.20	0.51	ND	1.00	2.51	ND	ND
538-93-2	i-Butylbenzene	0.12	0.31	ND	0.67	1.68	ND	ND
135-98-8	sec-butylbenzene	0.13	0.33	ND	0.71	1.79	ND	ND
541-73-1	1,3-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
99-87-6	Isopropyltoluene	0.13	0.33	ND	0.70	1.79	ND	ND
100-44-7	Benzyl chloride	0.24	1.18	ND	1.22	6.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
104-51-8	n-Butylbenzene	0.12	0.33	ND	0.66	1.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.40	2.00	ND	2.40	12.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.27	1.34	ND	2.59	12.94	ND	ND
78-00-2	Tetraethyl lead	0.10	0.48	ND	1.27	6.35	ND	ND
120-82-1	1,2,4-Trichlorobenzene	0.82	2.06	ND	6.11	15.28	ND	ND

91-20-3	Naphthalene	0.18	0.44	ND	0.92	2.31	ND	ND
87-68-3	Hexachlorobutadiene	0.41	2.06	ND	4.39	21.96	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.12	91	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181A**

File: QC11181A.D **Date Analyzed:** 11/18/11 **Time:** 10:49
Description: ST60025
Sam_Type: LCS
QC_Batch: 111811-MSA
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	8.78	0	172	70	130	*
75-35-4	1,1-Dichloroethene	0.10	5.15	8.17	0	159	70	130	*
75-09-2	Dichloromethane	0.10	5.20	7.37	0	142	70	130	*
75-34-3	1,1-Dichloroethane	0.10	5.15	8.26	0	160	70	130	*
67-66-3	Chloroform	0.10	5.15	7.11	0	138	70	130	*
71-55-6	1,1,1-Trichloroethane	0.10	5.15	5.79	0	112	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	5.84	0	113	70	130	
71-43-2	Benzene	0.10	5.15	5.96	0	116	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.00	0	97	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.48	0	106	70	130	
108-88-3	Toluene	0.10	5.15	5.11	0	99	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	4.35	0	84	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.75	0	92	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	9.29	0	90	70	130	
95-47-6	o-Xylene	0.10	5.15	4.74	0	92	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.24	0	82	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.85	108	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL DUPLICATE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181B**

File: QC11181B.D **Date Analyzed:** 11/18/11 **Time:** 11:30
Description: ST60025
Sam_Type: LCD
QC_Batch: 111811-MSA
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	9.08	0	178	70	130	*
75-35-4	1,1-Dichloroethene	0.10	5.15	8.01	0	155	70	130	*
75-09-2	Dichloromethane	0.10	5.20	7.10	0	137	70	130	*
75-34-3	1,1-Dichloroethane	0.10	5.15	8.01	0	155	70	130	*
67-66-3	Chloroform	0.10	5.15	7.08	0	138	70	130	*
71-55-6	1,1,1-Trichloroethane	0.10	5.15	5.54	0	107	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	5.98	0	116	70	130	
71-43-2	Benzene	0.10	5.15	5.70	0	111	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	4.86	0	94	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.41	0	105	70	130	
108-88-3	Toluene	0.10	5.15	5.08	0	99	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	4.28	0	83	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.82	0	94	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	9.01	0	87	70	130	
95-47-6	o-Xylene	0.10	5.15	4.65	0	90	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.16	0	80	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	11.35	113	70	130	

QUALITY CONTROL DUPLICATE

ENVIRONMENTAL
Analytical Service, Inc.

Duplicate of QC Sample

EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181B**

Dup File: QC11181AC.D
Description: ST60025
QC_Batch: 111811-MSA

CAS#	Compound	LCD PPBV	LCS PPBV	RPD %D	Limit %	Flag * = Out
75-01-4	Vinyl chloride	9.08	8.780	3	25	
75-35-4	1,1-Dichloroethene	8.01	8.170	2	25	
75-09-2	Dichloromethane	7.10	7.370	4	25	
75-34-3	1,1-Dichloroethane	8.01	8.260	3	25	
67-66-3	Chloroform	7.08	7.110	0	25	
71-55-6	1,1,1-Trichloroethane	5.54	5.790	5	25	
107-06-2	1,2-Dichloroethane	5.98	5.840	2	25	
71-43-2	Benzene	5.70	5.960	5	25	
56-23-5	Carbon tetrachloride	4.86	5.000	3	25	
79-01-6	Trichloroethene	5.41	5.480	1	25	
108-88-3	Toluene	5.08	5.110	1	25	
127-18-4	Tetrachloroethene	4.28	4.350	2	25	
100-41-4	Ethylbenzene	4.82	4.750	2	25	
1330-20-7	m,p-Xylenes	9.01	9.290	3	25	
95-47-6	o-Xylene	4.65	4.740	2	25	
108-67-8	1,3,5-Trimethylbenzene	4.16	4.240	2	25	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181A**

File: QC11181A.D **Date Analyzed:** 11/18/11 **Time:** 10:49
Description: ST60025
Sam_Type: LCS
QC_Batch: 111811-MSC
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	5.27	0	103	70	130	
75-35-4	1,1-Dichloroethene	0.10	5.15	5.57	0	108	70	130	
75-09-2	Dichloromethane	0.10	5.20	5.95	0	114	70	130	
75-34-3	1,1-Dichloroethane	0.10	5.15	5.56	0	108	70	130	
67-66-3	Chloroform	0.10	5.15	5.45	0	106	70	130	
71-55-6	1,1,1-Trichloroethane	0.10	5.15	5.10	0	99	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	4.79	0	93	70	130	
71-43-2	Benzene	0.10	5.15	4.73	0	92	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.31	0	103	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.19	0	101	70	130	
108-88-3	Toluene	0.10	5.15	4.74	0	92	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	5.22	0	101	70	130	
100-41-4	Ethylbenzene	0.10	5.15	5.28	0	103	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	10.44	0	101	70	130	
95-47-6	o-Xylene	0.10	5.15	5.35	0	104	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	5.41	0	104	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.20	102	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL DUPLICATE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181B**

File: QC11181B.D **Date Analyzed:** 11/18/11 **Time:** 11:29
Description: ST60025
Sam_Type: LCD
QC_Batch: 111811-MSC
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	5.43	0	107	70	130	
75-35-4	1,1-Dichloroethene	0.10	5.15	5.66	0	110	70	130	
75-09-2	Dichloromethane	0.10	5.20	6.08	0	117	70	130	
75-34-3	1,1-Dichloroethane	0.10	5.15	5.60	0	109	70	130	
67-66-3	Chloroform	0.10	5.15	5.59	0	109	70	130	
71-55-6	1,1,1-Trichloroethane	0.10	5.15	5.31	0	103	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	4.98	0	97	70	130	
71-43-2	Benzene	0.10	5.15	4.88	0	95	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.60	0	109	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.40	0	105	70	130	
108-88-3	Toluene	0.10	5.15	5.08	0	99	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	5.40	0	105	70	130	
100-41-4	Ethylbenzene	0.10	5.15	5.68	0	110	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	11.25	0	109	70	130	
95-47-6	o-Xylene	0.10	5.15	5.72	0	111	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	6.18	0	119	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.19	102	70	130	

QUALITY CONTROL DUPLICATE

ENVIRONMENTAL
Analytical Service, Inc.

Duplicate of QC Sample

EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11181B**

Dup File: QC11181A.D
Description: ST60025
QC_Batch: 111811-MSC

CAS#	Compound	LCD PPBV	LCS PPBV	RPD %D	Limit %	Flag * = Out
75-01-4	Vinyl chloride	5.43	5.270	3	25	
75-35-4	1,1-Dichloroethene	5.66	5.570	2	25	
75-09-2	Dichloromethane	6.08	5.950	2	25	
75-34-3	1,1-Dichloroethane	5.60	5.560	1	25	
67-66-3	Chloroform	5.59	5.450	3	25	
71-55-6	1,1,1-Trichloroethane	5.31	5.100	4	25	
107-06-2	1,2-Dichloroethane	4.98	4.790	4	25	
71-43-2	Benzene	4.88	4.730	3	25	
56-23-5	Carbon tetrachloride	5.60	5.310	5	25	
79-01-6	Trichloroethene	5.40	5.190	4	25	
108-88-3	Toluene	5.08	4.740	7	25	
127-18-4	Tetrachloroethene	5.40	5.220	3	25	
100-41-4	Ethylbenzene	5.68	5.280	7	25	
1330-20-7	m,p-Xylenes	11.25	10.440	7	25	
95-47-6	o-Xylene	5.72	5.350	6	25	
108-67-8	1,3,5-Trimethylbenzene	6.18	5.410	12	25	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191A**

File: QC11191A.D **Date Analyzed:** 11/18/11 **Time:** 10:27
Description: ST60025
Sam_Type: LCS
QC_Batch: 111911-MSA
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	7.79	0	153	70	130	*
75-35-4	1,1-Dichloroethene	0.10	5.15	7.89	0	153	70	130	*
75-09-2	Dichloromethane	0.10	5.20	6.84	0	131	70	130	*
75-34-3	1,1-Dichloroethane	0.10	5.15	7.34	0	142	70	130	*
67-66-3	Chloroform	0.10	5.15	6.83	0	133	70	130	*
71-55-6	1,1,1-Trichloroethane	0.10	5.15	6.00	0	116	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	6.36	0	124	70	130	
71-43-2	Benzene	0.10	5.15	5.47	0	106	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.06	0	98	70	130	
79-01-6	Trichloroethene	0.10	5.15	6.26	0	122	70	130	
108-88-3	Toluene	0.10	5.15	4.80	0	93	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	4.43	0	86	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.60	0	89	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	9.31	0	90	70	130	
95-47-6	o-Xylene	0.10	5.15	4.72	0	92	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.35	0	84	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.27	103	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL DUPLICATE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191B**

File: QC11191B.D **Date Analyzed:** 11/18/11 **Time:** 11:05
Description: ST60025
Sam_Type: LCD
QC_Batch: 111911-MSA
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	7.57	0	148	70	130	*
75-35-4	1,1-Dichloroethene	0.10	5.15	7.12	0	138	70	130	*
75-09-2	Dichloromethane	0.10	5.20	6.00	0	115	70	130	
75-34-3	1,1-Dichloroethane	0.10	5.15	6.45	0	125	70	130	
67-66-3	Chloroform	0.10	5.15	6.08	0	118	70	130	
71-55-6	1,1,1-Trichloroethane	0.10	5.15	5.14	0	100	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	5.59	0	109	70	130	
71-43-2	Benzene	0.10	5.15	4.79	0	93	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	4.67	0	91	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.17	0	100	70	130	
108-88-3	Toluene	0.10	5.15	4.33	0	84	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	3.90	0	76	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.47	0	87	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	8.71	0	85	70	130	
95-47-6	o-Xylene	0.10	5.15	4.46	0	87	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.05	0	78	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	11.76	118	70	130	

QUALITY CONTROL DUPLICATE

ENVIRONMENTAL
Analytical Service, Inc.

Duplicate of QC Sample

EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191B**

Dup File: QC11191A.D
Description: ST60025
QC_Batch: 111911-MSA

CAS#	Compound	LCD PPBV	LCS PPBV	RPD %D	Limit %	Flag * = Out
75-01-4	Vinyl chloride	7.57	7.790	3	25	
75-35-4	1,1-Dichloroethene	7.12	7.890	11	25	
75-09-2	Dichloromethane	6.00	6.840	14	25	
75-34-3	1,1-Dichloroethane	6.45	7.340	14	25	
67-66-3	Chloroform	6.08	6.830	12	25	
71-55-6	1,1,1-Trichloroethane	5.14	6.000	17	25	
107-06-2	1,2-Dichloroethane	5.59	6.360	14	25	
71-43-2	Benzene	4.79	5.470	14	25	
56-23-5	Carbon tetrachloride	4.67	5.060	8	25	
79-01-6	Trichloroethene	5.17	6.260	21	25	
108-88-3	Toluene	4.33	4.800	11	25	
127-18-4	Tetrachloroethene	3.90	4.430	14	25	
100-41-4	Ethylbenzene	4.47	4.600	3	25	
1330-20-7	m,p-Xylenes	8.71	9.310	7	25	
95-47-6	o-Xylene	4.46	4.720	6	25	
108-67-8	1,3,5-Trimethylbenzene	4.05	4.350	7	25	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL SPIKE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191A**

File: QC11191A.D **Date Analyzed:** 11/19/11 **Time:** 10:19
Description: ST60025
Sam_Type: LCS
QC_Batch: 111911-MSC
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	5.06	0	99	70	130	
75-35-4	1,1-Dichloroethene	0.10	5.15	5.41	0	105	70	130	
75-09-2	Dichloromethane	0.10	5.20	5.78	0	111	70	130	
75-34-3	1,1-Dichloroethane	0.10	5.15	5.25	0	102	70	130	
67-66-3	Chloroform	0.10	5.15	5.42	0	105	70	130	
71-55-6	1,1,1-Trichloroethane	0.10	5.15	4.93	0	96	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	4.60	0	89	70	130	
71-43-2	Benzene	0.10	5.15	4.37	0	85	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.01	0	97	70	130	
79-01-6	Trichloroethene	0.10	5.15	4.89	0	95	70	130	
108-88-3	Toluene	0.10	5.15	4.41	0	86	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	4.94	0	96	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.00	0	78	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	8.05	0	78	70	130	
95-47-6	o-Xylene	0.10	5.15	4.07	0	79	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.22	0	81	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.70	87	70	130	

QUALITY CONTROL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

LABORATORY CONTROL DUPLICATE
EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191B**

File: QC11191B.D **Date Analyzed:** 11/19/11 **Time:** 11:02
Description: ST60025
Sam_Type: LCD
QC_Batch: 111911-MSC
Air Volume: 1000 ml

CAS#	Compound	MDL PPBV	Spike Amt PPBV	Measured PPBV	Initial PPBV	Percent Recovery	LCL %	UCL %	Flag
75-01-4	Vinyl chloride	0.10	5.10	4.94	0	97	70	130	
75-35-4	1,1-Dichloroethene	0.10	5.15	5.37	0	104	70	130	
75-09-2	Dichloromethane	0.10	5.20	5.65	0	109	70	130	
75-34-3	1,1-Dichloroethane	0.10	5.15	5.25	0	102	70	130	
67-66-3	Chloroform	0.10	5.15	5.34	0	104	70	130	
71-55-6	1,1,1-Trichloroethane	0.10	5.15	4.97	0	96	70	130	
107-06-2	1,2-Dichloroethane	0.10	5.15	4.69	0	91	70	130	
71-43-2	Benzene	0.10	5.15	4.43	0	86	70	130	
56-23-5	Carbon tetrachloride	0.10	5.15	5.20	0	101	70	130	
79-01-6	Trichloroethene	0.10	5.15	5.02	0	98	70	130	
108-88-3	Toluene	0.10	5.15	4.58	0	89	70	130	
127-18-4	Tetrachloroethene	0.10	5.15	5.03	0	98	70	130	
100-41-4	Ethylbenzene	0.10	5.15	4.25	0	82	70	130	
1330-20-7	m,p-Xylenes	0.21	10.30	8.54	0	83	70	130	
95-47-6	o-Xylene	0.10	5.15	4.25	0	83	70	130	
108-67-8	1,3,5-Trimethylbenzene	0.11	5.20	4.58	0	88	70	130	

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	Limit LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.26	93	70	130	

QUALITY CONTROL DUPLICATE

ENVIRONMENTAL
Analytical Service, Inc.

Duplicate of QC Sample

EPA Method TO-15 Modified Full Scan GC/MS **SDG: LABQC**
Analytical Method: TO15 **Laboratory ID: QC11191B**

Dup File: QC11191A.D
Description: ST60025
QC_Batch: 111911-MSC

CAS#	Compound	LCD PPBV	LCS PPBV	RPD %D	Limit %	Flag * = Out
75-01-4	Vinyl chloride	4.94	5.060	2	25	
75-35-4	1,1-Dichloroethene	5.37	5.410	1	25	
75-09-2	Dichloromethane	5.65	5.780	2	25	
75-34-3	1,1-Dichloroethane	5.25	5.250	0	25	
67-66-3	Chloroform	5.34	5.420	2	25	
71-55-6	1,1,1-Trichloroethane	4.97	4.930	1	25	
107-06-2	1,2-Dichloroethane	4.69	4.600	2	25	
71-43-2	Benzene	4.43	4.370	1	25	
56-23-5	Carbon tetrachloride	5.20	5.010	4	25	
79-01-6	Trichloroethene	5.02	4.890	3	25	
108-88-3	Toluene	4.58	4.410	4	25	
127-18-4	Tetrachloroethene	5.03	4.940	2	25	
100-41-4	Ethylbenzene	4.25	4.000	6	25	
1330-20-7	m,p-Xylenes	8.54	8.050	6	25	
95-47-6	o-Xylene	4.25	4.070	4	25	
108-67-8	1,3,5-Trimethylbenzene	4.58	4.220	8	25	

V. ANALYTICAL RESULTS

SDG Numbers: 211536
Client: LaCroix Davis LLC

The following pages contain the certified reports for the analytical methods and the compounds requested. The reports are in order of analytical method then EAS ID number. A brief description of the units that appear on the reports is given below:

ppbV, ppmV, Percent

Parts per billion by volume (also known as mole ratio) and other related units. This is the primary reporting unit for all volatile organic compound analysis except the hydrocarbon speciation and total hydrocarbons. This unit is independent of temperature and pressure.

$$\text{ppbV} = \frac{\text{nanomoles of compound}}{\text{moles of air}}$$

ug/m3, mg/m3

Micrograms of compound per cubic meter of air and other related units. This is the primary reporting unit for semi volatile organic compounds. It is not a primary reporting unit for volatile organic compounds because it is temperature and pressure dependent, so the result will vary depending on the conditions when the sample was collected. EAS provides the units on its analytical reports as a convenience to the client, but they should be used with caution. The following equation can be used to convert from ppbV to ug/m3.

$$\text{ug/m3} = \frac{\text{ppbV x MW compound}}{23.68}$$

23.68 is the molar volume of a gas at 60 F and 1 atm pressure

ppbC, ppmC

Parts per billion by volume as carbon (methane) and other related units. This unit is the primary reporting unit for hydrocarbon analysis, even if it does not appear on the report. This unit is used because the flame ionization detector response is proportional to the number of carbons in the compound, so an accurate concentration can be reported even if the identification of the compound is not known.

$$\text{ppbC} = \text{ppbV x number of carbons in compound}$$

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 01**

Description: 2372-21-1 **Date Sampled:** 11/04/11 **Time:** 14:36
Can/Tube#: 396 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 14:37
Air Volume: 500 ml **Can Dilution Factor:** 1.56

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	0.82	0.73	1.62	4.06	3.60	J
74-87-3	Chloromethane	0.32	0.80	1.82	0.66	1.64	3.76	
76-14-2	Freon 114	0.32	0.81	0.52	2.27	5.67	3.63	J
75-01-4	Vinyl chloride	0.32	0.81	ND	0.83	2.07	ND	ND
106-99-0	1,3-Butadiene	0.33	0.84	ND	0.74	1.85	ND	ND
74-83-9	Bromomethane	0.32	0.81	ND	1.26	3.15	ND	ND
75-00-3	Chloroethane	0.32	0.81	ND	0.86	2.14	ND	ND
64-17-5	Ethanol	1.07	2.68	16.08	2.02	5.06	30.31	
75-69-4	Trichlorofluoromethane	0.32	0.81	0.50	1.82	4.56	2.80	J
67-64-1	Acetone	0.71	0.88	33.13	1.68	2.10	78.69	B
67-63-0	2-propanol	0.82	4.09	1.45	2.01	10.04	3.56	J
75-65-0	t-Butanol	0.23	0.59	1.29	0.71	1.78	3.91	
4227-95-6	Methyl iodide	0.09	0.23	ND	0.55	1.37	ND	ND
75-35-4	1,1-Dichloroethene	0.63	1.58	ND	2.50	6.25	ND	ND
107-13-1	Acrylonitrile	0.36	0.90	ND	0.79	1.96	ND	ND
76-13-1	Freon 113	0.32	0.80	ND	2.44	6.09	ND	ND
107-05-1	Allyl chloride	0.28	0.70	ND	0.86	2.20	ND	ND
75-09-2	Dichloromethane	0.32	0.81	0.51	1.13	2.82	1.78	J
75-15-0	Carbon disulfide	0.27	0.67	ND	0.83	2.08	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	0.52	ND	0.82	2.05	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	0.53	ND	0.76	1.91	ND	ND
107-12-0	Propionitrile	0.30	0.74	ND	0.67	1.67	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.79	ND	1.28	3.19	ND	ND
108-05-4	Vinyl acetate	0.25	0.63	ND	0.89	2.22	ND	ND
78-93-3	2-Butanone	0.29	0.73	1.97	0.86	2.15	5.81	
108-20-3	Diisopropyl ether	0.20	0.49	ND	0.82	2.05	ND	ND
110-54-3	Hexane	0.21	0.53	2.92	0.75	1.87	10.30	
126-98-7	Methacrylonitrile	0.30	0.74	ND	0.81	2.04	ND	ND
141-78-6	Ethyl acetate	0.25	0.63	3.79	0.91	2.27	13.63	
74-97-5	Bromochloromethane	0.15	0.38	ND	0.81	2.03	ND	ND
109-99-9	Tetrahydrofuran	0.36	0.90	ND	1.06	2.65	ND	ND
78-83-1	Isobutyl alcohol	0.47	2.37	ND	1.44	7.18	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.32	0.80	ND	1.27	3.19	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.64	ND	1.18	2.95	ND	ND
67-66-3	Chloroform	0.32	0.80	ND	1.55	3.88	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	0.80	ND	1.74	4.34	ND	ND
107-06-2	1,2-Dichloroethane	0.32	0.80	ND	1.30	3.26	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.47	ND	0.86	2.15	ND	ND
110-82-7	Cyclohexane	0.22	0.55	0.49	0.76	1.89	1.68	J
71-43-2	Benzene	0.64	0.80	0.66	2.05	2.57	2.12	J
56-23-5	Carbon tetrachloride	0.32	0.80	ND	2.00	5.00	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.39	0.20	0.73	1.82	0.93	J
142-82-5	n-Heptane	0.17	0.44	0.46	0.71	1.79	1.86	
78-87-5	1,2-Dichloropropane	0.32	0.80	ND	1.48	3.72	ND	ND
123-91-1	1,4 Dioxane	0.59	5.87	6.54	2.11	21.12	23.55	
74-95-3	Dibromomethane	0.11	0.27	ND	0.77	1.91	ND	ND
79-01-6	Trichloroethene	0.32	0.80	ND	1.73	4.32	ND	ND
75-27-4	Bromodichloromethane	0.12	0.29	ND	0.77	1.94	ND	ND
80-62-6	Methyl methacrylate	0.19	0.49	ND	0.79	1.99	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.54	0.25	0.89	2.22	1.02	J
10061-01-5	cis-1,3-Dichloropropene	0.33	0.83	ND	1.50	3.75	ND	ND
108-88-3	Toluene	0.64	0.80	7.44	2.42	3.03	28.03	
10061-02-6	trans-1,3-Dichloropropene	0.32	0.81	ND	1.47	3.68	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	0.80	0.53	1.74	4.34	2.87	J
97-63-2	Ethyl methacrylate	0.17	0.43	ND	0.80	2.00	ND	ND
591-78-6	2-Hexanone	0.20	0.51	0.34	0.83	2.08	1.38	J
142-28-9	1,3-Dichloropropane	0.19	0.47	ND	0.87	2.18	ND	ND
111-65-9	Octane	0.16	0.39	2.98	0.73	1.84	13.93	
124-48-1	Dibromochloromethane	0.11	0.29	ND	0.98	2.44	ND	ND
106-93-4	1,2-Dibromoethane	0.32	0.81	ND	2.49	6.23	ND	ND
127-18-4	Tetrachloroethene	0.32	0.80	ND	2.16	5.39	ND	ND
108-90-7	Chlorobenzene	0.32	0.80	ND	1.46	3.66	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.82	2.03	ND	ND
100-41-4	Ethylbenzene	0.32	0.81	0.43	1.41	3.52	1.88	J
1330-20-7	m,p-Xylenes	0.64	1.61	1.43	2.79	6.98	6.22	J
111-84-2	Nonane	0.14	0.34	0.96	0.72	1.80	5.01	
100-42-5	Styrene	0.32	0.80	0.73	1.37	3.43	3.11	J
75-25-2	Bromoform	0.08	0.19	ND	0.80	2.00	ND	ND
95-47-6	o-Xylene	0.32	0.80	0.51	1.38	3.45	2.22	J
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.18	ND	2.18	21.83	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.35	ND	0.85	2.12	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.19	0.48	ND	0.99	2.47	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.38	ND	0.79	1.99	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.37	ND	0.78	1.94	ND	ND
103-65-1	n-Propylbenzene	0.22	0.54	ND	1.06	2.65	ND	ND
98-82-8	Isopropylbenzene	0.22	0.55	0.36	1.07	2.68	1.75	J
622-96-8	4-Ethyltoluene	0.18	0.44	0.43	0.87	2.18	2.09	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.83	ND	1.63	4.06	ND	ND
124-18-5	Decane	0.15	0.37	3.76	0.85	2.12	21.90	
98-06-6	tert-butyl benzene	0.19	0.48	ND	1.04	2.62	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.32	0.80	0.46	1.56	3.91	2.27	J
538-93-2	i-Butylbenzene	0.19	0.48	ND	1.04	2.62	ND	ND
135-98-8	sec-butylbenzene	0.20	0.51	ND	1.11	2.79	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.18	ND	3.82	19.12	ND	ND
99-87-6	Isopropyltoluene	0.20	0.51	ND	1.10	2.79	ND	ND
100-44-7	Benzyl chloride	0.37	1.83	ND	1.90	9.49	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.18	ND	3.82	19.12	ND	ND
104-51-8	n-Butylbenzene	0.19	0.51	ND	1.03	2.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.62	3.12	ND	3.75	18.75	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.09	ND	4.04	20.19	ND	ND
78-00-2	Tetraethyl lead	0.15	0.75	ND	1.98	9.90	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.29	3.21	2.51	9.53	23.83	18.63	J

91-20-3	Naphthalene	0.27	0.69	0.76	1.44	3.60	3.97	
87-68-3	Hexachlorobutadiene	0.64	3.21	ND	6.85	34.26	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.46	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 02**

Description: 2372-21-2 **Date Sampled:** 11/04/11 **Time:** 14:33
Can/Tube#: 306 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 15:33
Air Volume: 500 ml **Can Dilution Factor:** 1.21

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.25	0.64	0.66	1.26	3.15	3.25	
74-87-3	Chloromethane	0.25	0.62	0.65	0.51	1.27	1.35	
76-14-2	Freon 114	0.25	0.63	ND	1.76	4.40	ND	ND
75-01-4	Vinyl chloride	0.25	0.63	ND	0.64	1.61	ND	ND
106-99-0	1,3-Butadiene	0.26	0.65	ND	0.57	1.43	ND	ND
74-83-9	Bromomethane	0.25	0.63	ND	0.98	2.44	ND	ND
75-00-3	Chloroethane	0.25	0.63	ND	0.66	1.66	ND	ND
64-17-5	Ethanol	0.83	2.08	13.51	1.57	3.92	25.45	
75-69-4	Trichlorofluoromethane	0.25	0.63	0.48	1.41	3.53	2.69	J
67-64-1	Acetone	0.55	0.68	35.60	1.30	1.63	84.55	B
67-63-0	2-propanol	0.63	3.17	ND	1.56	7.79	ND	ND
75-65-0	t-Butanol	0.18	0.45	0.59	0.55	1.38	1.78	
4227-95-6	Methyl iodide	0.07	0.18	ND	0.42	1.06	ND	ND
75-35-4	1,1-Dichloroethene	0.49	1.22	ND	1.94	4.85	ND	ND
107-13-1	Acrylonitrile	0.28	0.70	ND	0.61	1.52	ND	ND
76-13-1	Freon 113	0.25	0.62	ND	1.89	4.73	ND	ND
107-05-1	Allyl chloride	0.21	0.54	1.34	0.67	1.70	4.18	
75-09-2	Dichloromethane	0.25	0.63	0.52	0.87	2.18	1.80	J
75-15-0	Carbon disulfide	0.21	0.52	ND	0.64	1.61	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.16	0.40	ND	0.64	1.59	ND	ND
1634-04-4	Methyl tert butyl ether	0.16	0.41	ND	0.59	1.48	ND	ND
107-12-0	Propionitrile	0.23	0.58	ND	0.52	1.30	ND	ND
75-34-3	1,1-Dichloroethane	0.24	0.61	ND	0.99	2.48	ND	ND
108-05-4	Vinyl acetate	0.20	0.49	0.27	0.69	1.72	0.95	J
78-93-3	2-Butanone	0.23	0.57	1.09	0.67	1.67	3.20	
108-20-3	Diisopropyl ether	0.15	0.38	ND	0.63	1.59	ND	ND
110-54-3	Hexane	0.16	0.41	1.95	0.58	1.45	6.88	
126-98-7	Methacrylonitrile	0.23	0.58	ND	0.63	1.58	ND	ND
141-78-6	Ethyl acetate	0.20	0.49	1.69	0.70	1.76	6.08	
74-97-5	Bromochloromethane	0.12	0.30	ND	0.63	1.57	ND	ND
109-99-9	Tetrahydrofuran	0.28	0.70	0.33	0.82	2.05	0.98	J
78-83-1	Isobutyl alcohol	0.37	1.84	1.39	1.11	5.57	4.22	J
156-59-2	cis-1,2-Dichloroethene	0.25	0.62	ND	0.99	2.47	ND	ND
594-20-7	2,2-Dichloropropane	0.20	0.50	ND	0.92	2.29	ND	ND
67-66-3	Chloroform	0.25	0.62	ND	1.20	3.01	ND	ND
71-55-6	1,1,1-Trichloroethane	0.25	0.62	ND	1.35	3.37	ND	ND
107-06-2	1,2-Dichloroethane	0.25	0.62	ND	1.01	2.53	ND	ND

563-58-6	1,1-Dichloropropene	0.15	0.37	ND	0.67	1.67	ND	ND
110-82-7	Cyclohexane	0.17	0.43	0.71	0.59	1.47	2.45	
71-43-2	Benzene	0.50	0.62	ND	1.59	1.99	ND	ND
56-23-5	Carbon tetrachloride	0.25	0.62	ND	1.55	3.88	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.12	0.30	0.13	0.57	1.41	0.61	J
142-82-5	n-Heptane	0.14	0.34	0.31	0.55	1.39	1.26	J
78-87-5	1,2-Dichloropropane	0.25	0.62	ND	1.15	2.88	ND	ND
123-91-1	1,4 Dioxane	0.45	4.55	ND	1.64	16.39	ND	ND
74-95-3	Dibromomethane	0.08	0.21	ND	0.59	1.48	ND	ND
79-01-6	Trichloroethene	0.25	0.62	ND	1.34	3.35	ND	ND
75-27-4	Bromodichloromethane	0.09	0.23	ND	0.60	1.51	ND	ND
80-62-6	Methyl methacrylate	0.15	0.38	ND	0.62	1.54	ND	ND
108-10-1	4-Methyl-2-pentanone	0.17	0.42	ND	0.69	1.72	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.26	0.64	ND	1.16	2.91	ND	ND
108-88-3	Toluene	0.50	0.62	2.62	1.88	2.35	9.86	
10061-02-6	trans-1,3-Dichloropropene	0.25	0.63	ND	1.14	2.86	ND	ND
79-00-5	1,1,2-Trichloroethane	0.25	0.62	ND	1.35	3.37	ND	ND
97-63-2	Ethyl methacrylate	0.13	0.33	0.13	0.62	1.55	0.62	J
591-78-6	2-Hexanone	0.16	0.39	ND	0.65	1.62	ND	ND
142-28-9	1,3-Dichloropropane	0.15	0.37	ND	0.68	1.69	ND	ND
111-65-9	Octane	0.12	0.30	2.67	0.57	1.42	12.45	
124-48-1	Dibromochloromethane	0.09	0.22	ND	0.76	1.90	ND	ND
106-93-4	1,2-Dibromoethane	0.25	0.63	ND	1.93	4.83	ND	ND
127-18-4	Tetrachloroethene	0.25	0.62	ND	1.67	4.18	ND	ND
108-90-7	Chlorobenzene	0.25	0.62	ND	1.14	2.84	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.09	0.23	ND	0.63	1.58	ND	ND
100-41-4	Ethylbenzene	0.25	0.63	ND	1.09	2.73	ND	ND
1330-20-7	m,p-Xylenes	0.50	1.25	0.55	2.16	5.41	2.38	J
111-84-2	Nonane	0.11	0.27	0.53	0.56	1.40	2.77	
100-42-5	Styrene	0.25	0.62	ND	1.06	2.66	ND	ND
75-25-2	Bromoform	0.06	0.15	ND	0.62	1.55	ND	ND
95-47-6	o-Xylene	0.25	0.62	ND	1.07	2.68	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.25	2.47	ND	1.69	16.93	ND	ND
96-18-4	1,2,3-Trichloropropane	0.11	0.27	ND	0.66	1.65	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.15	0.38	ND	0.77	1.92	ND	ND
95-49-8	2-Chlorotoluene	0.12	0.30	ND	0.61	1.54	ND	ND
106-43-4	4-Chlorotoluene	0.12	0.29	ND	0.60	1.50	ND	ND
103-65-1	n-Propylbenzene	0.17	0.42	ND	0.82	2.06	ND	ND
98-82-8	Isopropylbenzene	0.17	0.42	ND	0.83	2.08	ND	ND
622-96-8	4-Ethyltoluene	0.14	0.34	0.19	0.68	1.69	0.92	J
108-67-8	1,3,5-Trimethylbenzene	0.26	0.64	ND	1.26	3.15	ND	ND
124-18-5	Decane	0.11	0.28	0.83	0.66	1.65	4.81	
98-06-6	tert-butyl benzene	0.15	0.37	ND	0.81	2.03	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.25	0.62	ND	1.21	3.03	ND	ND
538-93-2	i-Butylbenzene	0.15	0.37	ND	0.81	2.03	ND	ND
135-98-8	sec-butylbenzene	0.16	0.39	ND	0.86	2.16	ND	ND
541-73-1	1,3-Dichlorobenzene	0.49	2.47	ND	2.97	14.83	ND	ND
99-87-6	Isopropyltoluene	0.15	0.39	ND	0.85	2.16	ND	ND
100-44-7	Benzyl chloride	0.28	1.42	ND	1.47	7.36	ND	ND
106-46-7	1,4-Dichlorobenzene	0.49	2.47	ND	2.97	14.83	ND	ND
104-51-8	n-Butylbenzene	0.15	0.39	ND	0.80	2.16	ND	ND
95-50-1	1,2-Dichlorobenzene	0.48	2.42	ND	2.91	14.54	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.32	1.62	ND	3.13	15.66	ND	ND
78-00-2	Tetraethyl lead	0.12	0.58	ND	1.54	7.68	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.00	2.49	ND	7.39	18.48	ND	ND

91-20-3	Naphthalene	0.21	0.53	0.24	1.12	2.79	1.27	J
87-68-3	Hexachlorobutadiene	0.50	2.49	ND	5.31	26.57	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.37	84	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 03**

Description: 2372-21-3 **Date Sampled:** 11/04/11 **Time:** 14:37
Can/Tube#: 317 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 16:05
Air Volume: 500 ml **Can Dilution Factor:** 1.58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	0.83	0.81	1.64	4.11	3.98	J
74-87-3	Chloromethane	0.32	0.81	0.86	0.67	1.66	1.78	
76-14-2	Freon 114	0.33	0.82	ND	2.30	5.74	ND	ND
75-01-4	Vinyl chloride	0.33	0.82	ND	0.84	2.10	ND	ND
106-99-0	1,3-Butadiene	0.34	0.85	ND	0.75	1.87	ND	ND
74-83-9	Bromomethane	0.33	0.82	ND	1.27	3.19	ND	ND
75-00-3	Chloroethane	0.33	0.82	ND	0.87	2.17	ND	ND
64-17-5	Ethanol	1.09	2.72	9.07	2.05	5.12	17.09	
75-69-4	Trichlorofluoromethane	0.33	0.82	0.62	1.85	4.61	3.48	J
67-64-1	Acetone	0.72	0.89	37.34	1.70	2.12	88.70	B
67-63-0	2-propanol	0.83	4.14	ND	2.03	10.17	ND	ND
75-65-0	t-Butanol	0.24	0.59	1.70	0.72	1.80	5.15	
4227-95-6	Methyl iodide	0.09	0.24	ND	0.55	1.38	ND	ND
75-35-4	1,1-Dichloroethene	0.64	1.60	ND	2.53	6.33	ND	ND
107-13-1	Acrylonitrile	0.37	0.92	ND	0.80	1.99	ND	ND
76-13-1	Freon 113	0.32	0.81	ND	2.47	6.17	ND	ND
107-05-1	Allyl chloride	0.28	0.71	ND	0.87	2.22	ND	ND
75-09-2	Dichloromethane	0.33	0.82	0.40	1.14	2.85	1.41	J
75-15-0	Carbon disulfide	0.27	0.68	ND	0.84	2.10	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	0.52	ND	0.83	2.08	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	0.54	ND	0.77	1.93	ND	ND
107-12-0	Propionitrile	0.30	0.75	ND	0.68	1.69	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.80	ND	1.29	3.24	ND	ND
108-05-4	Vinyl acetate	0.26	0.64	ND	0.90	2.25	ND	ND
78-93-3	2-Butanone	0.30	0.74	0.78	0.87	2.18	2.31	
108-20-3	Diisopropyl ether	0.20	0.50	ND	0.83	2.07	ND	ND
110-54-3	Hexane	0.21	0.54	1.60	0.76	1.89	5.62	
126-98-7	Methacrylonitrile	0.30	0.75	ND	0.82	2.06	ND	ND
141-78-6	Ethyl acetate	0.25	0.64	2.20	0.92	2.30	7.93	
74-97-5	Bromochloromethane	0.15	0.39	ND	0.82	2.06	ND	ND
109-99-9	Tetrahydrofuran	0.36	0.91	ND	1.07	2.68	ND	ND
78-83-1	Isobutyl alcohol	0.48	2.40	ND	1.45	7.27	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	0.82	ND	1.29	3.23	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.65	ND	1.20	2.99	ND	ND
67-66-3	Chloroform	0.32	0.81	ND	1.57	3.93	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	0.81	ND	1.76	4.39	ND	ND
107-06-2	1,2-Dichloroethane	0.33	0.82	ND	1.32	3.30	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.48	ND	0.87	2.18	ND	ND
110-82-7	Cyclohexane	0.22	0.56	2.82	0.77	1.91	9.72	
71-43-2	Benzene	0.65	0.82	ND	2.08	2.60	ND	ND
56-23-5	Carbon tetrachloride	0.32	0.81	ND	2.03	5.07	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.40	ND	0.74	1.84	ND	ND
142-82-5	n-Heptane	0.18	0.44	0.42	0.72	1.81	1.71	J
78-87-5	1,2-Dichloropropane	0.33	0.82	ND	1.50	3.77	ND	ND
123-91-1	1,4 Dioxane	0.59	5.94	0.64	2.14	21.40	2.31	J
74-95-3	Dibromomethane	0.11	0.27	ND	0.78	1.93	ND	ND
79-01-6	Trichloroethene	0.33	0.82	ND	1.75	4.38	ND	ND
75-27-4	Bromodichloromethane	0.12	0.29	ND	0.78	1.97	ND	ND
80-62-6	Methyl methacrylate	0.20	0.49	ND	0.80	2.02	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.55	ND	0.90	2.25	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.33	0.84	ND	1.52	3.80	ND	ND
108-88-3	Toluene	0.65	0.82	6.34	2.45	3.07	23.87	
10061-02-6	trans-1,3-Dichloropropene	0.33	0.82	ND	1.49	3.73	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	0.81	0.46	1.76	4.39	2.51	J
97-63-2	Ethyl methacrylate	0.17	0.43	ND	0.81	2.02	ND	ND
591-78-6	2-Hexanone	0.21	0.52	ND	0.85	2.11	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.48	ND	0.88	2.20	ND	ND
111-65-9	Octane	0.16	0.40	3.22	0.74	1.86	15.04	
124-48-1	Dibromochloromethane	0.12	0.29	ND	0.99	2.48	ND	ND
106-93-4	1,2-Dibromoethane	0.33	0.82	ND	2.52	6.31	ND	ND
127-18-4	Tetrachloroethene	0.32	0.81	ND	2.18	5.46	ND	ND
108-90-7	Chlorobenzene	0.32	0.81	ND	1.48	3.71	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.83	2.06	ND	ND
100-41-4	Ethylbenzene	0.33	0.82	7.36	1.43	3.57	31.96	
1330-20-7	m,p-Xylenes	0.65	1.63	23.76	2.83	7.07	103.13	
111-84-2	Nonane	0.14	0.35	32.70	0.73	1.82	171.53	
100-42-5	Styrene	0.33	0.82	0.42	1.39	3.47	1.79	J
75-25-2	Bromoform	0.08	0.20	ND	0.81	2.02	ND	ND
95-47-6	o-Xylene	0.32	0.81	8.70	1.40	3.50	37.78	
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.22	ND	2.21	22.11	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.36	ND	0.86	2.15	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.49	ND	1.00	2.50	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.39	ND	0.80	2.01	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.38	0.72	0.78	1.96	3.72	
103-65-1	n-Propylbenzene	0.22	0.55	3.72	1.07	2.69	18.29	
98-82-8	Isopropylbenzene	0.22	0.55	2.92	1.09	2.72	14.33	
622-96-8	4-Ethyltoluene	0.18	0.45	2.37	0.88	2.20	11.63	
108-67-8	1,3,5-Trimethylbenzene	0.33	0.84	2.06	1.65	4.11	10.15	
124-18-5	Decane	0.15	0.37	26.15	0.86	2.15	152.11	
98-06-6	tert-butyl benzene	0.19	0.48	0.88	1.06	2.65	4.85	
95-63-6	1,2,4-Trimethylbenzene	0.32	0.81	5.07	1.58	3.96	24.90	
538-93-2	i-Butylbenzene	0.19	0.48	0.42	1.06	2.65	2.28	J
135-98-8	sec-butylbenzene	0.21	0.52	1.24	1.13	2.83	6.82	
541-73-1	1,3-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	0.85	1.11	2.83	4.69	
100-44-7	Benzyl chloride	0.37	1.86	ND	1.92	9.62	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	1.11	1.04	2.83	6.10	
95-50-1	1,2-Dichlorobenzene	0.63	3.16	ND	3.80	18.99	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.12	ND	4.09	20.45	ND	ND
78-00-2	Tetraethyl lead	0.15	0.76	ND	2.01	10.03	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.30	3.25	ND	9.65	24.14	ND	ND

91-20-3	Naphthalene	0.28	0.70	ND	1.46	3.64	ND	ND
87-68-3	Hexachlorobutadiene	0.65	3.25	ND	6.94	34.70	ND	ND

		Spike	Measured		QC	Limits	Flag
	Surrogate Recovery	ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	10.00	9.64	96	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 04**

Description: 2372-21-4 **Date Sampled:** 11/04/11 **Time:** 14:30
Can/Tube#: 320 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 16:43
Air Volume: 500 ml **Can Dilution Factor:** 1.62

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.34	0.85	0.59	1.68	4.21	2.91	J
74-87-3	Chloromethane	0.33	0.83	0.69	0.68	1.71	1.43	J
76-14-2	Freon 114	0.34	0.84	ND	2.35	5.89	ND	ND
75-01-4	Vinyl chloride	0.34	0.84	ND	0.86	2.15	ND	ND
106-99-0	1,3-Butadiene	0.35	0.87	ND	0.77	1.92	ND	ND
74-83-9	Bromomethane	0.34	0.84	ND	1.31	3.27	ND	ND
75-00-3	Chloroethane	0.34	0.84	ND	0.89	2.22	ND	ND
64-17-5	Ethanol	1.11	2.79	19.28	2.10	5.25	36.33	
75-69-4	Trichlorofluoromethane	0.34	0.84	0.44	1.89	4.73	2.45	J
67-64-1	Acetone	0.73	0.92	23.30	1.74	2.18	55.35	B
67-63-0	2-propanol	0.85	4.24	3.23	2.09	10.43	7.93	J
75-65-0	t-Butanol	0.24	0.61	1.67	0.74	1.85	5.06	
4227-95-6	Methyl iodide	0.10	0.24	ND	0.57	1.42	ND	ND
75-35-4	1,1-Dichloroethene	0.65	1.64	ND	2.59	6.49	ND	ND
107-13-1	Acrylonitrile	0.38	0.94	ND	0.82	2.04	ND	ND
76-13-1	Freon 113	0.33	0.83	ND	2.53	6.33	ND	ND
107-05-1	Allyl chloride	0.29	0.73	ND	0.90	2.28	ND	ND
75-09-2	Dichloromethane	0.34	0.84	ND	1.17	2.92	ND	ND
75-15-0	Carbon disulfide	0.28	0.69	ND	0.86	2.16	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.22	0.54	ND	0.85	2.13	ND	ND
1634-04-4	Methyl tert butyl ether	0.22	0.55	ND	0.79	1.98	ND	ND
107-12-0	Propionitrile	0.31	0.77	ND	0.69	1.74	ND	ND
75-34-3	1,1-Dichloroethane	0.33	0.82	ND	1.32	3.32	ND	ND
108-05-4	Vinyl acetate	0.26	0.65	ND	0.92	2.30	ND	ND
78-93-3	2-Butanone	0.30	0.76	1.53	0.89	2.23	4.51	
108-20-3	Diisopropyl ether	0.20	0.51	ND	0.85	2.13	ND	ND
110-54-3	Hexane	0.22	0.55	1.47	0.78	1.94	5.18	
126-98-7	Methacrylonitrile	0.31	0.77	ND	0.84	2.12	ND	ND
141-78-6	Ethyl acetate	0.26	0.65	1.71	0.94	2.36	6.17	
74-97-5	Bromochloromethane	0.16	0.40	ND	0.84	2.11	ND	ND
109-99-9	Tetrahydrofuran	0.37	0.93	ND	1.10	2.75	ND	ND
78-83-1	Isobutyl alcohol	0.49	2.46	ND	1.49	7.46	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	0.84	ND	1.32	3.31	ND	ND
594-20-7	2,2-Dichloropropane	0.27	0.66	ND	1.23	3.07	ND	ND
67-66-3	Chloroform	0.33	0.83	ND	1.61	4.03	ND	ND
71-55-6	1,1,1-Trichloroethane	0.33	0.83	ND	1.80	4.51	ND	ND
107-06-2	1,2-Dichloroethane	0.33	0.84	ND	1.35	3.38	ND	ND

563-58-6	1,1-Dichloropropene	0.20	0.49	ND	0.89	2.23	ND	ND
110-82-7	Cyclohexane	0.23	0.57	ND	0.79	1.96	ND	ND
71-43-2	Benzene	0.67	0.84	ND	2.13	2.67	ND	ND
56-23-5	Carbon tetrachloride	0.33	0.83	ND	2.08	5.19	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.41	ND	0.76	1.89	ND	ND
142-82-5	n-Heptane	0.18	0.45	0.25	0.74	1.86	1.01	J
78-87-5	1,2-Dichloropropane	0.33	0.84	ND	1.54	3.86	ND	ND
123-91-1	1,4 Dioxane	0.61	6.09	ND	2.19	21.94	ND	ND
74-95-3	Dibromomethane	0.11	0.28	ND	0.80	1.98	ND	ND
79-01-6	Trichloroethene	0.33	0.84	ND	1.79	4.49	ND	ND
75-27-4	Bromodichloromethane	0.12	0.30	ND	0.80	2.02	ND	ND
80-62-6	Methyl methacrylate	0.20	0.51	ND	0.82	2.07	ND	ND
108-10-1	4-Methyl-2-pentanone	0.23	0.56	ND	0.92	2.31	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.34	0.86	ND	1.56	3.90	ND	ND
108-88-3	Toluene	0.67	0.84	4.64	2.51	3.15	17.46	
10061-02-6	trans-1,3-Dichloropropene	0.34	0.84	ND	1.53	3.82	ND	ND
79-00-5	1,1,2-Trichloroethane	0.33	0.83	ND	1.80	4.51	ND	ND
97-63-2	Ethyl methacrylate	0.18	0.44	ND	0.83	2.07	ND	ND
591-78-6	2-Hexanone	0.21	0.53	ND	0.87	2.16	ND	ND
142-28-9	1,3-Dichloropropane	0.20	0.49	ND	0.91	2.26	ND	ND
111-65-9	Octane	0.16	0.41	0.89	0.76	1.91	4.17	
124-48-1	Dibromochloromethane	0.12	0.30	ND	1.01	2.54	ND	ND
106-93-4	1,2-Dibromoethane	0.34	0.84	ND	2.59	6.47	ND	ND
127-18-4	Tetrachloroethene	0.33	0.83	ND	2.24	5.60	ND	ND
108-90-7	Chlorobenzene	0.33	0.83	ND	1.52	3.80	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.31	ND	0.85	2.11	ND	ND
100-41-4	Ethylbenzene	0.34	0.84	ND	1.46	3.66	ND	ND
1330-20-7	m,p-Xylenes	0.67	1.67	1.04	2.90	7.24	4.53	J
111-84-2	Nonane	0.14	0.36	0.67	0.74	1.87	3.51	
100-42-5	Styrene	0.33	0.84	ND	1.42	3.56	ND	ND
75-25-2	Bromoform	0.08	0.20	ND	0.83	2.08	ND	ND
95-47-6	o-Xylene	0.33	0.83	0.34	1.43	3.59	1.50	J
79-34-5	1,1,2,2-Tetrachloroethane	0.33	3.30	ND	2.27	22.67	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.37	ND	0.88	2.21	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.50	ND	1.03	2.57	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.40	ND	0.82	2.06	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.39	ND	0.80	2.01	ND	ND
103-65-1	n-Propylbenzene	0.22	0.56	ND	1.10	2.75	ND	ND
98-82-8	Isopropylbenzene	0.23	0.57	0.28	1.11	2.79	1.35	J
622-96-8	4-Ethyltoluene	0.18	0.46	0.22	0.90	2.26	1.10	J
108-67-8	1,3,5-Trimethylbenzene	0.34	0.86	ND	1.69	4.22	ND	ND
124-18-5	Decane	0.15	0.38	2.75	0.88	2.21	16.01	
98-06-6	tert-butyl benzene	0.20	0.50	ND	1.08	2.72	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.33	0.83	0.34	1.62	4.06	1.68	J
538-93-2	i-Butylbenzene	0.20	0.50	ND	1.08	2.72	ND	ND
135-98-8	sec-butylbenzene	0.21	0.53	ND	1.16	2.90	ND	ND
541-73-1	1,3-Dichlorobenzene	0.66	3.30	ND	3.97	19.86	ND	ND
99-87-6	Isopropyltoluene	0.21	0.53	ND	1.14	2.90	ND	ND
100-44-7	Benzyl chloride	0.38	1.91	ND	1.97	9.86	ND	ND
106-46-7	1,4-Dichlorobenzene	0.66	3.30	ND	3.97	19.86	ND	ND
104-51-8	n-Butylbenzene	0.19	0.53	ND	1.07	2.90	ND	ND
95-50-1	1,2-Dichlorobenzene	0.65	3.24	ND	3.89	19.47	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.43	2.17	ND	4.19	20.97	ND	ND
78-00-2	Tetraethyl lead	0.16	0.78	ND	2.06	10.28	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.33	3.34	ND	9.90	24.75	ND	ND

91-20-3	Naphthalene	0.29	0.71	ND	1.49	3.74	ND	ND
87-68-3	Hexachlorobutadiene	0.67	3.34	ND	7.12	35.58	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.94	89	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 05**

Description: 2372-21-5 **Date Sampled:** 11/04/11 **Time:** 14:34
Can/Tube#: 378 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 17:20
Air Volume: 500 ml **Can Dilution Factor:** 1.28

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.27	0.67	0.61	1.33	3.33	3.00	J
74-87-3	Chloromethane	0.26	0.65	0.79	0.54	1.35	1.64	
76-14-2	Freon 114	0.27	0.67	ND	1.86	4.65	ND	ND
75-01-4	Vinyl chloride	0.27	0.67	ND	0.68	1.70	ND	ND
106-99-0	1,3-Butadiene	0.27	0.69	ND	0.61	1.52	ND	ND
74-83-9	Bromomethane	0.27	0.67	ND	1.03	2.58	ND	ND
75-00-3	Chloroethane	0.27	0.67	ND	0.70	1.76	ND	ND
64-17-5	Ethanol	0.88	2.20	7.26	1.66	4.15	13.69	
75-69-4	Trichlorofluoromethane	0.27	0.67	0.52	1.50	3.74	2.91	J
67-64-1	Acetone	0.58	0.72	29.83	1.38	1.72	70.85	B
67-63-0	2-propanol	0.67	3.35	0.80	1.65	8.24	1.96	J
75-65-0	t-Butanol	0.19	0.48	0.46	0.58	1.46	1.40	J
4227-95-6	Methyl iodide	0.08	0.19	ND	0.45	1.12	ND	ND
75-35-4	1,1-Dichloroethene	0.52	1.30	ND	2.05	5.13	ND	ND
107-13-1	Acrylonitrile	0.30	0.74	ND	0.64	1.61	ND	ND
76-13-1	Freon 113	0.26	0.65	ND	2.00	5.00	ND	ND
107-05-1	Allyl chloride	0.23	0.58	ND	0.71	1.80	ND	ND
75-09-2	Dichloromethane	0.27	0.67	0.75	0.92	2.31	2.60	
75-15-0	Carbon disulfide	0.22	0.55	1.39	0.68	1.70	4.33	
156-60-5	trans-1,2-Dichloroethene	0.17	0.42	ND	0.67	1.68	ND	ND
1634-04-4	Methyl tert butyl ether	0.17	0.44	ND	0.63	1.57	ND	ND
107-12-0	Propionitrile	0.24	0.61	ND	0.55	1.37	ND	ND
75-34-3	1,1-Dichloroethane	0.26	0.65	ND	1.05	2.62	ND	ND
108-05-4	Vinyl acetate	0.21	0.52	0.23	0.73	1.82	0.82	J
78-93-3	2-Butanone	0.24	0.60	3.96	0.71	1.77	11.67	
108-20-3	Diisopropyl ether	0.16	0.40	ND	0.67	1.68	ND	ND
110-54-3	Hexane	0.17	0.44	2.41	0.61	1.53	8.50	
126-98-7	Methacrylonitrile	0.24	0.61	ND	0.67	1.67	ND	ND
141-78-6	Ethyl acetate	0.21	0.52	4.46	0.74	1.86	16.07	
74-97-5	Bromochloromethane	0.13	0.31	ND	0.66	1.67	ND	ND
109-99-9	Tetrahydrofuran	0.29	0.74	0.88	0.87	2.17	2.59	
78-83-1	Isobutyl alcohol	0.39	1.95	ND	1.18	5.89	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.26	0.66	ND	1.04	2.62	ND	ND
594-20-7	2,2-Dichloropropane	0.21	0.52	ND	0.97	2.42	ND	ND
67-66-3	Chloroform	0.26	0.65	ND	1.27	3.19	ND	ND
71-55-6	1,1,1-Trichloroethane	0.26	0.65	ND	1.42	3.56	ND	ND
107-06-2	1,2-Dichloroethane	0.26	0.66	ND	1.07	2.67	ND	ND

563-58-6	1,1-Dichloropropene	0.16	0.39	ND	0.70	1.77	ND	ND
110-82-7	Cyclohexane	0.18	0.45	7.44	0.62	1.55	25.60	
71-43-2	Benzene	0.53	0.66	0.54	1.68	2.11	1.72	J
56-23-5	Carbon tetrachloride	0.26	0.65	ND	1.64	4.10	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.13	0.32	0.16	0.60	1.49	0.75	J
142-82-5	n-Heptane	0.14	0.36	1.30	0.59	1.47	5.31	
78-87-5	1,2-Dichloropropane	0.26	0.66	ND	1.22	3.05	ND	ND
123-91-1	1,4 Dioxane	0.48	4.81	ND	1.73	17.33	ND	ND
74-95-3	Dibromomethane	0.09	0.22	ND	0.63	1.56	ND	ND
79-01-6	Trichloroethene	0.26	0.66	ND	1.42	3.55	ND	ND
75-27-4	Bromodichloromethane	0.09	0.24	ND	0.63	1.59	ND	ND
80-62-6	Methyl methacrylate	0.16	0.40	ND	0.65	1.63	ND	ND
108-10-1	4-Methyl-2-pentanone	0.18	0.45	0.21	0.73	1.82	0.87	J
10061-01-5	cis-1,3-Dichloropropene	0.27	0.68	ND	1.23	3.08	ND	ND
108-88-3	Toluene	0.53	0.66	9.59	1.99	2.49	36.09	
10061-02-6	trans-1,3-Dichloropropene	0.27	0.67	ND	1.21	3.02	ND	ND
79-00-5	1,1,2-Trichloroethane	0.26	0.65	ND	1.42	3.56	ND	ND
97-63-2	Ethyl methacrylate	0.14	0.35	ND	0.66	1.64	ND	ND
591-78-6	2-Hexanone	0.17	0.42	ND	0.68	1.71	ND	ND
142-28-9	1,3-Dichloropropane	0.15	0.39	ND	0.72	1.79	ND	ND
111-65-9	Octane	0.13	0.32	3.37	0.60	1.51	15.74	
124-48-1	Dibromochloromethane	0.09	0.24	ND	0.80	2.01	ND	ND
106-93-4	1,2-Dibromoethane	0.27	0.67	ND	2.05	5.11	ND	ND
127-18-4	Tetrachloroethene	0.26	0.65	ND	1.77	4.42	ND	ND
108-90-7	Chlorobenzene	0.26	0.65	ND	1.20	3.00	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.24	ND	0.67	1.67	ND	ND
100-41-4	Ethylbenzene	0.27	0.67	0.39	1.16	2.89	1.67	J
1330-20-7	m,p-Xylenes	0.53	1.32	1.16	2.29	5.72	5.02	J
111-84-2	Nonane	0.11	0.28	0.70	0.59	1.48	3.70	
100-42-5	Styrene	0.26	0.66	0.41	1.12	2.81	1.73	J
75-25-2	Bromoform	0.06	0.16	ND	0.65	1.64	ND	ND
95-47-6	o-Xylene	0.26	0.65	0.37	1.13	2.83	1.59	J
79-34-5	1,1,2,2-Tetrachloroethane	0.26	2.61	ND	1.79	17.91	ND	ND
96-18-4	1,2,3-Trichloropropane	0.12	0.29	ND	0.70	1.74	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.16	0.40	ND	0.81	2.03	ND	ND
95-49-8	2-Chlorotoluene	0.13	0.31	ND	0.65	1.63	ND	ND
106-43-4	4-Chlorotoluene	0.12	0.31	ND	0.64	1.59	ND	ND
103-65-1	n-Propylbenzene	0.18	0.44	ND	0.87	2.18	ND	ND
98-82-8	Isopropylbenzene	0.18	0.45	0.25	0.88	2.20	1.23	J
622-96-8	4-Ethyltoluene	0.15	0.36	0.31	0.71	1.79	1.51	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.68	ND	1.33	3.33	ND	ND
124-18-5	Decane	0.12	0.30	2.51	0.69	1.74	14.62	
98-06-6	tert-butyl benzene	0.16	0.39	ND	0.86	2.15	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.65	ND	1.28	3.21	ND	ND
538-93-2	i-Butylbenzene	0.16	0.39	ND	0.86	2.15	ND	ND
135-98-8	sec-butylbenzene	0.17	0.42	ND	0.91	2.29	ND	ND
541-73-1	1,3-Dichlorobenzene	0.52	2.61	ND	3.14	15.69	ND	ND
99-87-6	Isopropyltoluene	0.16	0.42	0.21	0.90	2.29	1.16	J
100-44-7	Benzyl chloride	0.30	1.51	ND	1.56	7.79	ND	ND
106-46-7	1,4-Dichlorobenzene	0.52	2.61	ND	3.14	15.69	ND	ND
104-51-8	n-Butylbenzene	0.15	0.42	ND	0.84	2.29	ND	ND
95-50-1	1,2-Dichlorobenzene	0.51	2.56	ND	3.08	15.38	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.34	1.72	ND	3.31	16.57	ND	ND
78-00-2	Tetraethyl lead	0.12	0.61	ND	1.62	8.12	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.05	2.64	ND	7.82	19.55	ND	ND

91-20-3	Naphthalene	0.23	0.56	ND	1.18	2.95	ND	ND
87-68-3	Hexachlorobutadiene	0.53	2.64	ND	5.62	28.11	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.93	89	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 06**

Description: 2372-21-6 **Date Sampled:** 11/04/11 **Time:** 14:41
Can/Tube#: 358 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 17:58
Air Volume: 500 ml **Can Dilution Factor:** 1.58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	0.83	0.69	1.64	4.11	3.40	J
74-87-3	Chloromethane	0.32	0.81	0.87	0.67	1.66	1.80	
76-14-2	Freon 114	0.33	0.82	ND	2.30	5.74	ND	ND
75-01-4	Vinyl chloride	0.33	0.82	ND	0.84	2.10	ND	ND
106-99-0	1,3-Butadiene	0.34	0.85	ND	0.75	1.87	ND	ND
74-83-9	Bromomethane	0.33	0.82	ND	1.27	3.19	ND	ND
75-00-3	Chloroethane	0.33	0.82	ND	0.87	2.17	ND	ND
64-17-5	Ethanol	1.09	2.72	4.84	2.05	5.12	9.12	
75-69-4	Trichlorofluoromethane	0.33	0.82	0.55	1.85	4.61	3.07	J
67-64-1	Acetone	0.72	0.89	32.07	1.70	2.12	76.16	B
67-63-0	2-propanol	0.83	4.14	8.89	2.03	10.17	21.83	
75-65-0	t-Butanol	0.24	0.59	1.03	0.72	1.80	3.11	
4227-95-6	Methyl iodide	0.09	0.24	ND	0.55	1.38	ND	ND
75-35-4	1,1-Dichloroethene	0.64	1.60	ND	2.53	6.33	ND	ND
107-13-1	Acrylonitrile	0.37	0.92	ND	0.80	1.99	ND	ND
76-13-1	Freon 113	0.32	0.81	ND	2.47	6.17	ND	ND
107-05-1	Allyl chloride	0.28	0.71	ND	0.87	2.22	ND	ND
75-09-2	Dichloromethane	0.33	0.82	ND	1.14	2.85	ND	ND
75-15-0	Carbon disulfide	0.27	0.68	0.40	0.84	2.10	1.26	J
156-60-5	trans-1,2-Dichloroethene	0.21	0.52	ND	0.83	2.08	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	0.54	ND	0.77	1.93	ND	ND
107-12-0	Propionitrile	0.30	0.75	ND	0.68	1.69	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.80	ND	1.29	3.24	ND	ND
108-05-4	Vinyl acetate	0.26	0.64	ND	0.90	2.25	ND	ND
78-93-3	2-Butanone	0.30	0.74	1.43	0.87	2.18	4.21	
108-20-3	Diisopropyl ether	0.20	0.50	ND	0.83	2.07	ND	ND
110-54-3	Hexane	0.21	0.54	1.52	0.76	1.89	5.35	
126-98-7	Methacrylonitrile	0.30	0.75	ND	0.82	2.06	ND	ND
141-78-6	Ethyl acetate	0.25	0.64	3.67	0.92	2.30	13.23	
74-97-5	Bromochloromethane	0.15	0.39	ND	0.82	2.06	ND	ND
109-99-9	Tetrahydrofuran	0.36	0.91	0.37	1.07	2.68	1.10	J
78-83-1	Isobutyl alcohol	0.48	2.40	ND	1.45	7.27	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	0.82	ND	1.29	3.23	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.65	ND	1.20	2.99	ND	ND
67-66-3	Chloroform	0.32	0.81	ND	1.57	3.93	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	0.81	ND	1.76	4.39	ND	ND
107-06-2	1,2-Dichloroethane	0.33	0.82	ND	1.32	3.30	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.48	ND	0.87	2.18	ND	ND
110-82-7	Cyclohexane	0.22	0.56	0.86	0.77	1.91	2.97	
71-43-2	Benzene	0.65	0.82	ND	2.08	2.60	ND	ND
56-23-5	Carbon tetrachloride	0.32	0.81	ND	2.03	5.07	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.40	ND	0.74	1.84	ND	ND
142-82-5	n-Heptane	0.18	0.44	0.35	0.72	1.81	1.44	J
78-87-5	1,2-Dichloropropane	0.33	0.82	ND	1.50	3.77	ND	ND
123-91-1	1,4 Dioxane	0.59	5.94	ND	2.14	21.40	ND	ND
74-95-3	Dibromomethane	0.11	0.27	ND	0.78	1.93	ND	ND
79-01-6	Trichloroethene	0.33	0.82	ND	1.75	4.38	ND	ND
75-27-4	Bromodichloromethane	0.12	0.29	ND	0.78	1.97	ND	ND
80-62-6	Methyl methacrylate	0.20	0.49	ND	0.80	2.02	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.55	ND	0.90	2.25	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.33	0.84	ND	1.52	3.80	ND	ND
108-88-3	Toluene	0.65	0.82	6.54	2.45	3.07	24.64	
10061-02-6	trans-1,3-Dichloropropene	0.33	0.82	ND	1.49	3.73	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	0.81	0.42	1.76	4.39	2.31	J
97-63-2	Ethyl methacrylate	0.17	0.43	ND	0.81	2.02	ND	ND
591-78-6	2-Hexanone	0.21	0.52	ND	0.85	2.11	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.48	ND	0.88	2.20	ND	ND
111-65-9	Octane	0.16	0.40	2.63	0.74	1.86	12.29	
124-48-1	Dibromochloromethane	0.12	0.29	ND	0.99	2.48	ND	ND
106-93-4	1,2-Dibromoethane	0.33	0.82	ND	2.52	6.31	ND	ND
127-18-4	Tetrachloroethene	0.32	0.81	ND	2.18	5.46	ND	ND
108-90-7	Chlorobenzene	0.32	0.81	ND	1.48	3.71	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.83	2.06	ND	ND
100-41-4	Ethylbenzene	0.33	0.82	ND	1.43	3.57	ND	ND
1330-20-7	m,p-Xylenes	0.65	1.63	ND	2.83	7.07	ND	ND
111-84-2	Nonane	0.14	0.35	0.45	0.73	1.82	2.33	
100-42-5	Styrene	0.33	0.82	ND	1.39	3.47	ND	ND
75-25-2	Bromoform	0.08	0.20	ND	0.81	2.02	ND	ND
95-47-6	o-Xylene	0.32	0.81	ND	1.40	3.50	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.22	ND	2.21	22.11	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.36	ND	0.86	2.15	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.49	ND	1.00	2.50	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.39	ND	0.80	2.01	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.38	ND	0.78	1.96	ND	ND
103-65-1	n-Propylbenzene	0.22	0.55	ND	1.07	2.69	ND	ND
98-82-8	Isopropylbenzene	0.22	0.55	ND	1.09	2.72	ND	ND
622-96-8	4-Ethyltoluene	0.18	0.45	0.31	0.88	2.20	1.50	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.84	ND	1.65	4.11	ND	ND
124-18-5	Decane	0.15	0.37	3.10	0.86	2.15	18.04	
98-06-6	tert-butyl benzene	0.19	0.48	ND	1.06	2.65	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.32	0.81	ND	1.58	3.96	ND	ND
538-93-2	i-Butylbenzene	0.19	0.48	ND	1.06	2.65	ND	ND
135-98-8	sec-butylbenzene	0.21	0.52	ND	1.13	2.83	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	ND	1.11	2.83	ND	ND
100-44-7	Benzyl chloride	0.37	1.86	ND	1.92	9.62	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	ND	1.04	2.83	ND	ND
95-50-1	1,2-Dichlorobenzene	0.63	3.16	ND	3.80	18.99	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.12	ND	4.09	20.45	ND	ND
78-00-2	Tetraethyl lead	0.15	0.76	ND	2.01	10.03	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.30	3.25	ND	9.65	24.14	ND	ND

91-20-3	Naphthalene	0.28	0.70	ND	1.46	3.64	ND	ND
87-68-3	Hexachlorobutadiene	0.65	3.25	ND	6.94	34.70	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.30	83	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 07**

Description: 2372-21-7 **Date Sampled:** 11/04/11 **Time:** 14:56
Can/Tube#: 379 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 18:36
Air Volume: 500 ml **Can Dilution Factor:** 1.38

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.29	0.73	0.54	1.43	3.59	2.65	J
74-87-3	Chloromethane	0.28	0.70	0.56	0.58	1.45	1.16	J
76-14-2	Freon 114	0.29	0.72	ND	2.01	5.01	ND	ND
75-01-4	Vinyl chloride	0.29	0.72	ND	0.73	1.83	ND	ND
106-99-0	1,3-Butadiene	0.30	0.74	ND	0.65	1.64	ND	ND
74-83-9	Bromomethane	0.29	0.72	ND	1.11	2.78	ND	ND
75-00-3	Chloroethane	0.29	0.72	ND	0.76	1.89	ND	ND
64-17-5	Ethanol	0.95	2.37	ND	1.79	4.47	ND	ND
75-69-4	Trichlorofluoromethane	0.29	0.72	0.45	1.61	4.03	2.51	J
67-64-1	Acetone	0.62	0.78	38.68	1.48	1.86	91.87	B
67-63-0	2-propanol	0.72	3.62	9.06	1.78	8.88	22.26	
75-65-0	t-Butanol	0.21	0.52	ND	0.63	1.57	ND	ND
4227-95-6	Methyl iodide	0.08	0.21	ND	0.48	1.21	ND	ND
75-35-4	1,1-Dichloroethene	0.56	1.40	ND	2.21	5.53	ND	ND
107-13-1	Acrylonitrile	0.32	0.80	ND	0.69	1.74	ND	ND
76-13-1	Freon 113	0.28	0.70	ND	2.16	5.39	ND	ND
107-05-1	Allyl chloride	0.24	0.62	2.95	0.76	1.94	9.21	
75-09-2	Dichloromethane	0.29	0.72	0.38	1.00	2.49	1.31	J
75-15-0	Carbon disulfide	0.24	0.59	ND	0.73	1.84	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.18	0.46	ND	0.73	1.81	ND	ND
1634-04-4	Methyl tert butyl ether	0.19	0.47	ND	0.67	1.69	ND	ND
107-12-0	Propionitrile	0.26	0.66	ND	0.59	1.48	ND	ND
75-34-3	1,1-Dichloroethane	0.28	0.70	ND	1.13	2.83	ND	ND
108-05-4	Vinyl acetate	0.22	0.56	ND	0.79	1.96	ND	ND
78-93-3	2-Butanone	0.26	0.65	1.33	0.76	1.90	3.93	
108-20-3	Diisopropyl ether	0.17	0.43	ND	0.72	1.81	ND	ND
110-54-3	Hexane	0.19	0.47	1.51	0.66	1.65	5.33	
126-98-7	Methacrylonitrile	0.26	0.66	ND	0.72	1.80	ND	ND
141-78-6	Ethyl acetate	0.22	0.56	5.87	0.80	2.01	21.13	
74-97-5	Bromochloromethane	0.14	0.34	ND	0.72	1.80	ND	ND
109-99-9	Tetrahydrofuran	0.32	0.79	0.37	0.94	2.34	1.10	J
78-83-1	Isobutyl alcohol	0.42	2.10	ND	1.27	6.35	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.28	0.71	ND	1.13	2.82	ND	ND
594-20-7	2,2-Dichloropropane	0.23	0.57	ND	1.04	2.61	ND	ND
67-66-3	Chloroform	0.28	0.70	ND	1.37	3.44	ND	ND
71-55-6	1,1,1-Trichloroethane	0.28	0.70	ND	1.54	3.84	ND	ND
107-06-2	1,2-Dichloroethane	0.28	0.71	ND	1.15	2.88	ND	ND

563-58-6	1,1-Dichloropropene	0.17	0.42	ND	0.76	1.90	ND	ND
110-82-7	Cyclohexane	0.19	0.49	1.45	0.67	1.67	5.00	
71-43-2	Benzene	0.57	0.71	0.62	1.82	2.27	1.99	J
56-23-5	Carbon tetrachloride	0.28	0.70	ND	1.77	4.42	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.14	0.35	0.21	0.65	1.61	0.96	J
142-82-5	n-Heptane	0.15	0.39	0.49	0.63	1.58	2.02	
78-87-5	1,2-Dichloropropane	0.28	0.71	ND	1.31	3.29	ND	ND
123-91-1	1,4 Dioxane	0.52	5.19	ND	1.87	18.69	ND	ND
74-95-3	Dibromomethane	0.10	0.24	ND	0.68	1.69	ND	ND
79-01-6	Trichloroethene	0.28	0.71	ND	1.53	3.82	ND	ND
75-27-4	Bromodichloromethane	0.10	0.26	ND	0.68	1.72	ND	ND
80-62-6	Methyl methacrylate	0.17	0.43	ND	0.70	1.76	ND	ND
108-10-1	4-Methyl-2-pentanone	0.19	0.48	ND	0.79	1.97	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.29	0.73	ND	1.33	3.32	ND	ND
108-88-3	Toluene	0.57	0.71	7.11	2.14	2.68	26.75	
10061-02-6	trans-1,3-Dichloropropene	0.29	0.72	ND	1.30	3.26	ND	ND
79-00-5	1,1,2-Trichloroethane	0.28	0.70	0.44	1.54	3.84	2.42	J
97-63-2	Ethyl methacrylate	0.15	0.38	ND	0.71	1.77	ND	ND
591-78-6	2-Hexanone	0.18	0.45	ND	0.74	1.84	ND	ND
142-28-9	1,3-Dichloropropane	0.17	0.42	ND	0.77	1.93	ND	ND
111-65-9	Octane	0.14	0.35	3.80	0.65	1.62	17.73	
124-48-1	Dibromochloromethane	0.10	0.25	ND	0.86	2.16	ND	ND
106-93-4	1,2-Dibromoethane	0.29	0.72	ND	2.20	5.51	ND	ND
127-18-4	Tetrachloroethene	0.28	0.70	ND	1.91	4.77	ND	ND
108-90-7	Chlorobenzene	0.28	0.70	ND	1.30	3.24	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.26	ND	0.72	1.80	ND	ND
100-41-4	Ethylbenzene	0.29	0.72	0.32	1.25	3.12	1.39	J
1330-20-7	m,p-Xylenes	0.57	1.42	0.91	2.47	6.17	3.96	J
111-84-2	Nonane	0.12	0.30	0.87	0.63	1.59	4.58	
100-42-5	Styrene	0.28	0.71	0.49	1.21	3.03	2.09	J
75-25-2	Bromoform	0.07	0.17	ND	0.70	1.77	ND	ND
95-47-6	o-Xylene	0.28	0.70	0.31	1.22	3.06	1.36	J
79-34-5	1,1,2,2-Tetrachloroethane	0.28	2.82	ND	1.93	19.31	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.31	ND	0.75	1.88	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.17	0.43	ND	0.87	2.19	ND	ND
95-49-8	2-Chlorotoluene	0.14	0.34	ND	0.70	1.76	ND	ND
106-43-4	4-Chlorotoluene	0.13	0.33	ND	0.69	1.71	ND	ND
103-65-1	n-Propylbenzene	0.19	0.48	ND	0.94	2.35	ND	ND
98-82-8	Isopropylbenzene	0.19	0.48	0.29	0.95	2.37	1.45	J
622-96-8	4-Ethyltoluene	0.16	0.39	0.24	0.77	1.93	1.17	J
108-67-8	1,3,5-Trimethylbenzene	0.29	0.73	ND	1.44	3.59	ND	ND
124-18-5	Decane	0.13	0.32	3.05	0.75	1.88	17.73	
98-06-6	tert-butyl benzene	0.17	0.42	ND	0.92	2.32	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	0.70	ND	1.38	3.46	ND	ND
538-93-2	i-Butylbenzene	0.17	0.42	ND	0.92	2.32	ND	ND
135-98-8	sec-butylbenzene	0.18	0.45	ND	0.98	2.47	ND	ND
541-73-1	1,3-Dichlorobenzene	0.56	2.82	ND	3.38	16.92	ND	ND
99-87-6	Isopropyltoluene	0.18	0.45	ND	0.97	2.47	ND	ND
100-44-7	Benzyl chloride	0.32	1.62	ND	1.68	8.40	ND	ND
106-46-7	1,4-Dichlorobenzene	0.56	2.82	ND	3.38	16.92	ND	ND
104-51-8	n-Butylbenzene	0.17	0.45	ND	0.91	2.47	ND	ND
95-50-1	1,2-Dichlorobenzene	0.55	2.76	ND	3.32	16.59	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.37	1.85	ND	3.57	17.86	ND	ND
78-00-2	Tetraethyl lead	0.13	0.66	ND	1.75	8.76	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.14	2.84	ND	8.43	21.08	ND	ND

91-20-3	Naphthalene	0.24	0.61	ND	1.27	3.18	ND	ND
87-68-3	Hexachlorobutadiene	0.57	2.84	ND	6.06	30.31	ND	ND

		Spike	Measured		QC	Limits	Flag
	Surrogate Recovery	ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	10.00	8.57	86	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 08**

Description: 2372-21-8 **Date Sampled:** 11/04/11 **Time:** 15:13
Can/Tube#: 371 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 19:13
Air Volume: 500 ml **Can Dilution Factor:** 1.46

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.31	0.77	0.68	1.52	3.80	3.35	J
74-87-3	Chloromethane	0.30	0.74	1.24	0.61	1.54	2.56	
76-14-2	Freon 114	0.30	0.76	ND	2.12	5.30	ND	ND
75-01-4	Vinyl chloride	0.30	0.76	ND	0.78	1.94	ND	ND
106-99-0	1,3-Butadiene	0.31	0.78	ND	0.69	1.73	ND	ND
74-83-9	Bromomethane	0.30	0.76	ND	1.18	2.95	ND	ND
75-00-3	Chloroethane	0.30	0.76	ND	0.80	2.00	ND	ND
64-17-5	Ethanol	1.00	2.51	1.22	1.89	4.73	2.31	J
75-69-4	Trichlorofluoromethane	0.30	0.76	0.58	1.71	4.26	3.24	J
67-64-1	Acetone	0.66	0.83	5.29	1.57	1.96	12.56	B
67-63-0	2-propanol	0.77	3.83	1.38	1.88	9.40	3.38	J
75-65-0	t-Butanol	0.22	0.55	1.06	0.67	1.66	3.22	
4227-95-6	Methyl iodide	0.09	0.22	ND	0.51	1.28	ND	ND
75-35-4	1,1-Dichloroethene	0.59	1.48	ND	2.34	5.85	ND	ND
107-13-1	Acrylonitrile	0.34	0.85	ND	0.74	1.84	ND	ND
76-13-1	Freon 113	0.30	0.74	ND	2.28	5.70	ND	ND
107-05-1	Allyl chloride	0.26	0.66	ND	0.81	2.05	ND	ND
75-09-2	Dichloromethane	0.30	0.76	ND	1.05	2.63	ND	ND
75-15-0	Carbon disulfide	0.25	0.62	ND	0.78	1.94	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.19	0.48	ND	0.77	1.92	ND	ND
1634-04-4	Methyl tert butyl ether	0.20	0.50	ND	0.71	1.79	ND	ND
107-12-0	Propionitrile	0.28	0.69	ND	0.62	1.57	ND	ND
75-34-3	1,1-Dichloroethane	0.29	0.74	ND	1.19	2.99	ND	ND
108-05-4	Vinyl acetate	0.24	0.59	ND	0.83	2.08	ND	ND
78-93-3	2-Butanone	0.27	0.68	0.92	0.81	2.01	2.72	
108-20-3	Diisopropyl ether	0.18	0.46	ND	0.77	1.92	ND	ND
110-54-3	Hexane	0.20	0.50	2.43	0.70	1.75	8.56	
126-98-7	Methacrylonitrile	0.28	0.69	ND	0.76	1.91	ND	ND
141-78-6	Ethyl acetate	0.24	0.59	0.50	0.85	2.12	1.81	J
74-97-5	Bromochloromethane	0.14	0.36	ND	0.76	1.90	ND	ND
109-99-9	Tetrahydrofuran	0.34	0.84	3.88	0.99	2.48	11.43	
78-83-1	Isobutyl alcohol	0.44	2.22	ND	1.34	6.72	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.30	0.75	ND	1.19	2.98	ND	ND
594-20-7	2,2-Dichloropropane	0.24	0.60	ND	1.10	2.77	ND	ND
67-66-3	Chloroform	0.30	0.74	ND	1.45	3.63	ND	ND
71-55-6	1,1,1-Trichloroethane	0.30	0.74	ND	1.62	4.06	ND	ND
107-06-2	1,2-Dichloroethane	0.30	0.75	ND	1.22	3.05	ND	ND

563-58-6	1,1-Dichloropropene	0.18	0.44	ND	0.80	2.01	ND	ND
110-82-7	Cyclohexane	0.21	0.51	0.31	0.71	1.77	1.06	J
71-43-2	Benzene	0.60	0.75	3.33	1.92	2.41	10.63	
56-23-5	Carbon tetrachloride	0.30	0.74	ND	1.87	4.68	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.15	0.37	ND	0.68	1.70	ND	ND
142-82-5	n-Heptane	0.16	0.41	0.83	0.67	1.67	3.42	
78-87-5	1,2-Dichloropropane	0.30	0.75	ND	1.39	3.48	ND	ND
123-91-1	1,4 Dioxane	0.55	5.49	ND	1.98	19.77	ND	ND
74-95-3	Dibromomethane	0.10	0.25	ND	0.72	1.78	ND	ND
79-01-6	Trichloroethene	0.30	0.75	ND	1.62	4.05	ND	ND
75-27-4	Bromodichloromethane	0.11	0.27	ND	0.72	1.82	ND	ND
80-62-6	Methyl methacrylate	0.18	0.46	ND	0.74	1.86	ND	ND
108-10-1	4-Methyl-2-pentanone	0.20	0.51	ND	0.83	2.08	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.31	0.77	ND	1.40	3.51	ND	ND
108-88-3	Toluene	0.60	0.75	5.48	2.26	2.84	20.64	
10061-02-6	trans-1,3-Dichloropropene	0.30	0.76	ND	1.38	3.44	ND	ND
79-00-5	1,1,2-Trichloroethane	0.30	0.74	0.35	1.62	4.06	1.90	J
97-63-2	Ethyl methacrylate	0.16	0.40	0.17	0.75	1.87	0.77	J
591-78-6	2-Hexanone	0.19	0.48	ND	0.78	1.95	ND	ND
142-28-9	1,3-Dichloropropane	0.18	0.44	ND	0.82	2.04	ND	ND
111-65-9	Octane	0.15	0.37	1.82	0.68	1.72	8.50	
124-48-1	Dibromochloromethane	0.11	0.27	ND	0.91	2.29	ND	ND
106-93-4	1,2-Dibromoethane	0.30	0.76	ND	2.33	5.83	ND	ND
127-18-4	Tetrachloroethene	0.30	0.74	ND	2.02	5.05	ND	ND
108-90-7	Chlorobenzene	0.30	0.74	ND	1.37	3.43	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.28	ND	0.76	1.90	ND	ND
100-41-4	Ethylbenzene	0.30	0.76	0.31	1.32	3.30	1.33	J
1330-20-7	m,p-Xylenes	0.60	1.50	1.47	2.61	6.53	6.38	J
111-84-2	Nonane	0.13	0.32	0.63	0.67	1.68	3.29	
100-42-5	Styrene	0.30	0.75	ND	1.28	3.21	ND	ND
75-25-2	Bromoform	0.07	0.18	ND	0.75	1.87	ND	ND
95-47-6	o-Xylene	0.30	0.74	0.45	1.29	3.23	1.95	J
79-34-5	1,1,2,2-Tetrachloroethane	0.30	2.98	ND	2.04	20.43	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.33	ND	0.80	1.99	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.18	0.45	ND	0.93	2.31	ND	ND
95-49-8	2-Chlorotoluene	0.14	0.36	ND	0.74	1.86	ND	ND
106-43-4	4-Chlorotoluene	0.14	0.35	ND	0.73	1.81	ND	ND
103-65-1	n-Propylbenzene	0.20	0.51	ND	0.99	2.48	ND	ND
98-82-8	Isopropylbenzene	0.20	0.51	0.20	1.00	2.51	1.01	J
622-96-8	4-Ethyltoluene	0.17	0.41	ND	0.81	2.04	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.31	0.77	ND	1.52	3.80	ND	ND
124-18-5	Decane	0.14	0.34	3.92	0.79	1.99	22.79	
98-06-6	tert-butyl benzene	0.18	0.45	ND	0.98	2.45	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	0.74	ND	1.46	3.66	ND	ND
538-93-2	i-Butylbenzene	0.18	0.45	ND	0.98	2.45	ND	ND
135-98-8	sec-butylbenzene	0.19	0.48	ND	1.04	2.61	ND	ND
541-73-1	1,3-Dichlorobenzene	0.60	2.98	ND	3.58	17.90	ND	ND
99-87-6	Isopropyltoluene	0.19	0.48	ND	1.03	2.61	ND	ND
100-44-7	Benzyl chloride	0.34	1.72	ND	1.78	8.89	ND	ND
106-46-7	1,4-Dichlorobenzene	0.60	2.98	ND	3.58	17.90	ND	ND
104-51-8	n-Butylbenzene	0.18	0.48	ND	0.96	2.61	ND	ND
95-50-1	1,2-Dichlorobenzene	0.58	2.92	ND	3.51	17.55	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.39	1.96	ND	3.78	18.90	ND	ND
78-00-2	Tetraethyl lead	0.14	0.70	ND	1.85	9.26	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.20	3.01	ND	8.92	22.30	ND	ND

91-20-3	Naphthalene	0.26	0.64	ND	1.35	3.37	ND	ND
87-68-3	Hexachlorobutadiene	0.60	3.01	ND	6.41	32.07	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.42	84	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 09**

Description: 2372-21-9 **Date Sampled:** 11/04/11 **Time:** 16:24
Can/Tube#: 389 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 19:50
Air Volume: 500 ml **Can Dilution Factor:** 1.68

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.35	0.88	0.72	1.74	4.37	3.54	J
74-87-3	Chloromethane	0.34	0.86	0.99	0.71	1.77	2.04	
76-14-2	Freon 114	0.35	0.87	ND	2.44	6.10	ND	ND
75-01-4	Vinyl chloride	0.35	0.87	ND	0.89	2.23	ND	ND
106-99-0	1,3-Butadiene	0.36	0.90	ND	0.80	1.99	ND	ND
74-83-9	Bromomethane	0.35	0.87	ND	1.36	3.39	ND	ND
75-00-3	Chloroethane	0.35	0.87	ND	0.92	2.30	ND	ND
64-17-5	Ethanol	1.16	2.89	10.15	2.18	5.45	19.12	
75-69-4	Trichlorofluoromethane	0.35	0.87	0.51	1.96	4.91	2.86	J
67-64-1	Acetone	0.76	0.95	41.81	1.81	2.26	99.31	B
67-63-0	2-propanol	0.88	4.40	ND	2.16	10.81	ND	ND
75-65-0	t-Butanol	0.25	0.63	1.90	0.77	1.91	5.75	
4227-95-6	Methyl iodide	0.10	0.25	ND	0.59	1.47	ND	ND
75-35-4	1,1-Dichloroethene	0.68	1.70	ND	2.69	6.73	ND	ND
107-13-1	Acrylonitrile	0.39	0.97	ND	0.85	2.12	ND	ND
76-13-1	Freon 113	0.34	0.86	ND	2.63	6.56	ND	ND
107-05-1	Allyl chloride	0.30	0.76	ND	0.93	2.36	ND	ND
75-09-2	Dichloromethane	0.35	0.87	0.40	1.21	3.03	1.40	J
75-15-0	Carbon disulfide	0.29	0.72	1.84	0.89	2.24	5.72	
156-60-5	trans-1,2-Dichloroethene	0.22	0.56	ND	0.88	2.21	ND	ND
1634-04-4	Methyl tert butyl ether	0.23	0.57	ND	0.82	2.06	ND	ND
107-12-0	Propionitrile	0.32	0.80	ND	0.72	1.80	ND	ND
75-34-3	1,1-Dichloroethane	0.34	0.85	ND	1.37	3.44	ND	ND
108-05-4	Vinyl acetate	0.27	0.68	ND	0.96	2.39	ND	ND
78-93-3	2-Butanone	0.31	0.79	6.45	0.93	2.32	19.01	
108-20-3	Diisopropyl ether	0.21	0.53	ND	0.88	2.20	ND	ND
110-54-3	Hexane	0.23	0.57	2.12	0.81	2.01	7.47	
126-98-7	Methacrylonitrile	0.32	0.80	ND	0.88	2.19	ND	ND
141-78-6	Ethyl acetate	0.27	0.68	2.20	0.98	2.44	7.94	
74-97-5	Bromochloromethane	0.16	0.41	ND	0.87	2.19	ND	ND
109-99-9	Tetrahydrofuran	0.39	0.97	0.62	1.14	2.85	1.84	J
78-83-1	Isobutyl alcohol	0.51	2.55	ND	1.55	7.74	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.35	0.87	ND	1.37	3.43	ND	ND
594-20-7	2,2-Dichloropropane	0.28	0.69	ND	1.27	3.18	ND	ND
67-66-3	Chloroform	0.34	0.86	ND	1.67	4.18	ND	ND
71-55-6	1,1,1-Trichloroethane	0.34	0.86	ND	1.87	4.67	ND	ND
107-06-2	1,2-Dichloroethane	0.35	0.87	ND	1.40	3.51	ND	ND

563-58-6	1,1-Dichloropropene	0.20	0.51	ND	0.92	2.32	ND	ND
110-82-7	Cyclohexane	0.24	0.59	ND	0.82	2.04	ND	ND
71-43-2	Benzene	0.69	0.87	ND	2.21	2.77	ND	ND
56-23-5	Carbon tetrachloride	0.34	0.86	ND	2.15	5.39	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.17	0.42	0.17	0.79	1.96	0.79	J
142-82-5	n-Heptane	0.19	0.47	0.46	0.77	1.93	1.87	J
78-87-5	1,2-Dichloropropane	0.35	0.87	ND	1.60	4.00	ND	ND
123-91-1	1,4 Dioxane	0.63	6.32	0.90	2.27	22.75	3.26	J
74-95-3	Dibromomethane	0.12	0.29	ND	0.83	2.05	ND	ND
79-01-6	Trichloroethene	0.35	0.87	ND	1.86	4.66	ND	ND
75-27-4	Bromodichloromethane	0.12	0.31	ND	0.83	2.09	ND	ND
80-62-6	Methyl methacrylate	0.21	0.52	ND	0.86	2.14	ND	ND
108-10-1	4-Methyl-2-pentanone	0.23	0.58	0.33	0.96	2.39	1.34	J
10061-01-5	cis-1,3-Dichloropropene	0.36	0.89	ND	1.62	4.04	ND	ND
108-88-3	Toluene	0.69	0.87	4.92	2.61	3.26	18.53	
10061-02-6	trans-1,3-Dichloropropene	0.35	0.87	ND	1.59	3.96	ND	ND
79-00-5	1,1,2-Trichloroethane	0.34	0.86	ND	1.87	4.67	ND	ND
97-63-2	Ethyl methacrylate	0.18	0.46	ND	0.86	2.15	ND	ND
591-78-6	2-Hexanone	0.22	0.55	0.86	0.90	2.24	3.51	
142-28-9	1,3-Dichloropropane	0.20	0.51	ND	0.94	2.34	ND	ND
111-65-9	Octane	0.17	0.42	2.94	0.79	1.98	13.71	
124-48-1	Dibromochloromethane	0.12	0.31	ND	1.05	2.63	ND	ND
106-93-4	1,2-Dibromoethane	0.35	0.87	ND	2.68	6.71	ND	ND
127-18-4	Tetrachloroethene	0.34	0.86	ND	2.32	5.81	ND	ND
108-90-7	Chlorobenzene	0.34	0.86	ND	1.58	3.94	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.32	ND	0.88	2.19	ND	ND
100-41-4	Ethylbenzene	0.35	0.87	0.36	1.52	3.79	1.57	J
1330-20-7	m,p-Xylenes	0.69	1.73	1.60	3.00	7.51	6.94	J
111-84-2	Nonane	0.15	0.37	0.70	0.77	1.94	3.65	
100-42-5	Styrene	0.35	0.87	ND	1.47	3.69	ND	ND
75-25-2	Bromoform	0.08	0.21	ND	0.86	2.15	ND	ND
95-47-6	o-Xylene	0.34	0.86	0.49	1.49	3.72	2.11	J
79-34-5	1,1,2,2-Tetrachloroethane	0.34	3.43	ND	2.35	23.51	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.38	ND	0.92	2.29	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.21	0.52	ND	1.06	2.66	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.41	ND	0.85	2.14	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.40	ND	0.83	2.09	ND	ND
103-65-1	n-Propylbenzene	0.23	0.58	ND	1.14	2.86	ND	ND
98-82-8	Isopropylbenzene	0.24	0.59	0.33	1.16	2.89	1.64	J
622-96-8	4-Ethyltoluene	0.19	0.48	0.34	0.94	2.34	1.66	J
108-67-8	1,3,5-Trimethylbenzene	0.36	0.89	ND	1.75	4.38	ND	ND
124-18-5	Decane	0.16	0.39	5.93	0.91	2.29	34.47	
98-06-6	tert-butyl benzene	0.20	0.51	ND	1.12	2.82	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.34	0.86	0.39	1.68	4.21	1.93	J
538-93-2	i-Butylbenzene	0.20	0.51	ND	1.12	2.82	ND	ND
135-98-8	sec-butylbenzene	0.22	0.55	ND	1.20	3.00	ND	ND
541-73-1	1,3-Dichlorobenzene	0.69	3.43	ND	4.12	20.59	ND	ND
99-87-6	Isopropyltoluene	0.22	0.55	0.22	1.18	3.00	1.19	J
100-44-7	Benzyl chloride	0.40	1.98	ND	2.04	10.22	ND	ND
106-46-7	1,4-Dichlorobenzene	0.69	3.43	ND	4.12	20.59	ND	ND
104-51-8	n-Butylbenzene	0.20	0.55	ND	1.11	3.00	ND	ND
95-50-1	1,2-Dichlorobenzene	0.67	3.36	ND	4.04	20.19	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.45	2.25	ND	4.35	21.75	ND	ND
78-00-2	Tetraethyl lead	0.16	0.81	ND	2.13	10.66	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.38	3.46	ND	10.27	25.66	ND	ND

91-20-3	Naphthalene	0.30	0.74	ND	1.55	3.87	ND	ND
87-68-3	Hexachlorobutadiene	0.69	3.46	ND	7.38	36.90	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.18	82	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 10**

Description: 2372-21-10 **Date Sampled:** 11/04/11 **Time:** 15:13
Can/Tube#: 362 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 20:27
Air Volume: 500 ml **Can Dilution Factor:** 1.56

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	0.82	0.61	1.62	4.06	3.00	J
74-87-3	Chloromethane	0.32	0.80	0.77	0.66	1.64	1.60	J
76-14-2	Freon 114	0.32	0.81	ND	2.27	5.67	ND	ND
75-01-4	Vinyl chloride	0.32	0.81	ND	0.83	2.07	ND	ND
106-99-0	1,3-Butadiene	0.33	0.84	ND	0.74	1.85	ND	ND
74-83-9	Bromomethane	0.32	0.81	ND	1.26	3.15	ND	ND
75-00-3	Chloroethane	0.32	0.81	ND	0.86	2.14	ND	ND
64-17-5	Ethanol	1.07	2.68	3.08	2.02	5.06	5.80	
75-69-4	Trichlorofluoromethane	0.32	0.81	0.50	1.82	4.56	2.83	J
67-64-1	Acetone	0.71	0.88	41.23	1.68	2.10	97.94	B
67-63-0	2-propanol	0.82	4.09	ND	2.01	10.04	ND	ND
75-65-0	t-Butanol	0.23	0.59	0.51	0.71	1.78	1.55	J
4227-95-6	Methyl iodide	0.09	0.23	ND	0.55	1.37	ND	ND
75-35-4	1,1-Dichloroethene	0.63	1.58	ND	2.50	6.25	ND	ND
107-13-1	Acrylonitrile	0.36	0.90	ND	0.79	1.96	ND	ND
76-13-1	Freon 113	0.32	0.80	ND	2.44	6.09	ND	ND
107-05-1	Allyl chloride	0.28	0.70	ND	0.86	2.20	ND	ND
75-09-2	Dichloromethane	0.32	0.81	0.41	1.13	2.82	1.42	J
75-15-0	Carbon disulfide	0.27	0.67	ND	0.83	2.08	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	0.52	ND	0.82	2.05	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	0.53	ND	0.76	1.91	ND	ND
107-12-0	Propionitrile	0.30	0.74	ND	0.67	1.67	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.79	ND	1.28	3.19	ND	ND
108-05-4	Vinyl acetate	0.25	0.63	ND	0.89	2.22	ND	ND
78-93-3	2-Butanone	0.29	0.73	2.72	0.86	2.15	8.02	
108-20-3	Diisopropyl ether	0.20	0.49	ND	0.82	2.05	ND	ND
110-54-3	Hexane	0.21	0.53	1.34	0.75	1.87	4.73	
126-98-7	Methacrylonitrile	0.30	0.74	ND	0.81	2.04	ND	ND
141-78-6	Ethyl acetate	0.25	0.63	1.12	0.91	2.27	4.02	
74-97-5	Bromochloromethane	0.15	0.38	ND	0.81	2.03	ND	ND
109-99-9	Tetrahydrofuran	0.36	0.90	0.40	1.06	2.65	1.19	J
78-83-1	Isobutyl alcohol	0.47	2.37	ND	1.44	7.18	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.32	0.80	ND	1.27	3.19	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.64	ND	1.18	2.95	ND	ND
67-66-3	Chloroform	0.32	0.80	ND	1.55	3.88	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	0.80	ND	1.74	4.34	ND	ND
107-06-2	1,2-Dichloroethane	0.32	0.80	ND	1.30	3.26	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.47	ND	0.86	2.15	ND	ND
110-82-7	Cyclohexane	0.22	0.55	0.79	0.76	1.89	2.73	
71-43-2	Benzene	0.64	0.80	ND	2.05	2.57	ND	ND
56-23-5	Carbon tetrachloride	0.32	0.80	ND	2.00	5.00	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.39	0.39	0.73	1.82	1.82	J
142-82-5	n-Heptane	0.17	0.44	0.38	0.71	1.79	1.55	J
78-87-5	1,2-Dichloropropane	0.32	0.80	ND	1.48	3.72	ND	ND
123-91-1	1,4 Dioxane	0.59	5.87	ND	2.11	21.12	ND	ND
74-95-3	Dibromomethane	0.11	0.27	ND	0.77	1.91	ND	ND
79-01-6	Trichloroethene	0.32	0.80	ND	1.73	4.32	ND	ND
75-27-4	Bromodichloromethane	0.12	0.29	ND	0.77	1.94	ND	ND
80-62-6	Methyl methacrylate	0.19	0.49	ND	0.79	1.99	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.54	ND	0.89	2.22	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.33	0.83	ND	1.50	3.75	ND	ND
108-88-3	Toluene	0.64	0.80	3.87	2.42	3.03	14.58	
10061-02-6	trans-1,3-Dichloropropene	0.32	0.81	ND	1.47	3.68	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	0.80	ND	1.74	4.34	ND	ND
97-63-2	Ethyl methacrylate	0.17	0.43	ND	0.80	2.00	ND	ND
591-78-6	2-Hexanone	0.20	0.51	ND	0.83	2.08	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.47	ND	0.87	2.18	ND	ND
111-65-9	Octane	0.16	0.39	2.97	0.73	1.84	13.85	
124-48-1	Dibromochloromethane	0.11	0.29	ND	0.98	2.44	ND	ND
106-93-4	1,2-Dibromoethane	0.32	0.81	ND	2.49	6.23	ND	ND
127-18-4	Tetrachloroethene	0.32	0.80	ND	2.16	5.39	ND	ND
108-90-7	Chlorobenzene	0.32	0.80	ND	1.46	3.66	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.82	2.03	ND	ND
100-41-4	Ethylbenzene	0.32	0.81	ND	1.41	3.52	ND	ND
1330-20-7	m,p-Xylenes	0.64	1.61	1.19	2.79	6.98	5.17	J
111-84-2	Nonane	0.14	0.34	0.61	0.72	1.80	3.20	
100-42-5	Styrene	0.32	0.80	0.32	1.37	3.43	1.38	J
75-25-2	Bromoform	0.08	0.19	ND	0.80	2.00	ND	ND
95-47-6	o-Xylene	0.32	0.80	0.37	1.38	3.45	1.62	J
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.18	ND	2.18	21.83	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.35	ND	0.85	2.12	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.19	0.48	ND	0.99	2.47	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.38	0.21	0.79	1.99	1.07	J
106-43-4	4-Chlorotoluene	0.15	0.37	ND	0.78	1.94	ND	ND
103-65-1	n-Propylbenzene	0.22	0.54	ND	1.06	2.65	ND	ND
98-82-8	Isopropylbenzene	0.22	0.55	0.43	1.07	2.68	2.11	J
622-96-8	4-Ethyltoluene	0.18	0.44	0.35	0.87	2.18	1.71	J
108-67-8	1,3,5-Trimethylbenzene	0.33	0.83	ND	1.63	4.06	ND	ND
124-18-5	Decane	0.15	0.37	3.67	0.85	2.12	21.36	
98-06-6	tert-butyl benzene	0.19	0.48	ND	1.04	2.62	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.32	0.80	0.38	1.56	3.91	1.89	J
538-93-2	i-Butylbenzene	0.19	0.48	ND	1.04	2.62	ND	ND
135-98-8	sec-butylbenzene	0.20	0.51	ND	1.11	2.79	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.18	ND	3.82	19.12	ND	ND
99-87-6	Isopropyltoluene	0.20	0.51	ND	1.10	2.79	ND	ND
100-44-7	Benzyl chloride	0.37	1.83	ND	1.90	9.49	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.18	ND	3.82	19.12	ND	ND
104-51-8	n-Butylbenzene	0.19	0.51	ND	1.03	2.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.62	3.12	ND	3.75	18.75	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.09	ND	4.04	20.19	ND	ND
78-00-2	Tetraethyl lead	0.15	0.75	ND	1.98	9.90	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.29	3.21	ND	9.53	23.83	ND	ND

91-20-3	Naphthalene	0.27	0.69	ND	1.44	3.60	ND	ND
87-68-3	Hexachlorobutadiene	0.64	3.21	ND	6.85	34.26	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.83	88	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 11**

Description: 2372-21-11 **Date Sampled:** 11/04/11 **Time:** 15:12
Can/Tube#: 383 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSC **Date Analyzed:** 11/18/11 **Time:** 21:04
Air Volume: 500 ml **Can Dilution Factor:** 1.60

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.34	0.84	0.69	1.66	4.16	3.40	J
74-87-3	Chloromethane	0.33	0.82	0.91	0.67	1.68	1.88	
76-14-2	Freon 114	0.33	0.83	ND	2.33	5.81	ND	ND
75-01-4	Vinyl chloride	0.33	0.83	ND	0.85	2.13	ND	ND
106-99-0	1,3-Butadiene	0.34	0.86	ND	0.76	1.90	ND	ND
74-83-9	Bromomethane	0.33	0.83	ND	1.29	3.23	ND	ND
75-00-3	Chloroethane	0.33	0.83	ND	0.88	2.19	ND	ND
64-17-5	Ethanol	1.10	2.75	ND	2.07	5.19	ND	ND
75-69-4	Trichlorofluoromethane	0.33	0.83	0.52	1.87	4.67	2.91	J
67-64-1	Acetone	0.72	0.91	39.99	1.72	2.15	94.97	B
67-63-0	2-propanol	0.84	4.19	9.98	2.06	10.30	24.52	
75-65-0	t-Butanol	0.24	0.60	3.60	0.73	1.82	10.92	
4227-95-6	Methyl iodide	0.10	0.24	ND	0.56	1.40	ND	ND
75-35-4	1,1-Dichloroethene	0.65	1.62	ND	2.56	6.41	ND	ND
107-13-1	Acrylonitrile	0.37	0.93	ND	0.81	2.01	ND	ND
76-13-1	Freon 113	0.33	0.82	ND	2.50	6.25	ND	ND
107-05-1	Allyl chloride	0.28	0.72	ND	0.89	2.25	ND	ND
75-09-2	Dichloromethane	0.33	0.83	0.48	1.16	2.89	1.67	J
75-15-0	Carbon disulfide	0.27	0.68	ND	0.85	2.13	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	0.53	ND	0.84	2.10	ND	ND
1634-04-4	Methyl tert butyl ether	0.22	0.54	ND	0.78	1.96	ND	ND
107-12-0	Propionitrile	0.30	0.76	ND	0.68	1.72	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.81	ND	1.31	3.28	ND	ND
108-05-4	Vinyl acetate	0.26	0.65	ND	0.91	2.28	ND	ND
78-93-3	2-Butanone	0.30	0.75	1.39	0.88	2.21	4.09	
108-20-3	Diisopropyl ether	0.20	0.50	ND	0.84	2.10	ND	ND
110-54-3	Hexane	0.22	0.54	1.56	0.77	1.92	5.50	
126-98-7	Methacrylonitrile	0.30	0.76	ND	0.83	2.09	ND	ND
141-78-6	Ethyl acetate	0.26	0.65	1.12	0.93	2.33	4.04	
74-97-5	Bromochloromethane	0.16	0.39	ND	0.83	2.08	ND	ND
109-99-9	Tetrahydrofuran	0.37	0.92	ND	1.08	2.72	ND	ND
78-83-1	Isobutyl alcohol	0.49	2.43	ND	1.47	7.37	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	0.83	ND	1.31	3.27	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.66	ND	1.21	3.03	ND	ND
67-66-3	Chloroform	0.33	0.82	ND	1.59	3.98	ND	ND
71-55-6	1,1,1-Trichloroethane	0.33	0.82	ND	1.78	4.45	ND	ND
107-06-2	1,2-Dichloroethane	0.33	0.83	ND	1.33	3.34	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.49	ND	0.88	2.21	ND	ND
110-82-7	Cyclohexane	0.23	0.56	0.43	0.78	1.94	1.48	J
71-43-2	Benzene	0.66	0.83	ND	2.10	2.64	ND	ND
56-23-5	Carbon tetrachloride	0.33	0.82	ND	2.05	5.13	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.40	ND	0.75	1.87	ND	ND
142-82-5	n-Heptane	0.18	0.45	0.42	0.73	1.84	1.73	J
78-87-5	1,2-Dichloropropane	0.33	0.83	ND	1.52	3.81	ND	ND
123-91-1	1,4 Dioxane	0.60	6.02	ND	2.17	21.67	ND	ND
74-95-3	Dibromomethane	0.11	0.28	ND	0.79	1.96	ND	ND
79-01-6	Trichloroethene	0.33	0.83	ND	1.77	4.43	ND	ND
75-27-4	Bromodichloromethane	0.12	0.30	ND	0.79	1.99	ND	ND
80-62-6	Methyl methacrylate	0.20	0.50	ND	0.81	2.04	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.56	0.24	0.91	2.28	0.98	J
10061-01-5	cis-1,3-Dichloropropene	0.34	0.85	ND	1.54	3.85	ND	ND
108-88-3	Toluene	0.66	0.83	3.33	2.48	3.11	12.53	
10061-02-6	trans-1,3-Dichloropropene	0.33	0.83	ND	1.51	3.78	ND	ND
79-00-5	1,1,2-Trichloroethane	0.33	0.82	ND	1.78	4.45	ND	ND
97-63-2	Ethyl methacrylate	0.18	0.44	0.19	0.82	2.05	0.86	J
591-78-6	2-Hexanone	0.21	0.52	ND	0.86	2.14	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.48	ND	0.89	2.23	ND	ND
111-65-9	Octane	0.16	0.40	4.65	0.75	1.88	21.72	
124-48-1	Dibromochloromethane	0.12	0.29	ND	1.00	2.51	ND	ND
106-93-4	1,2-Dibromoethane	0.33	0.83	ND	2.56	6.39	ND	ND
127-18-4	Tetrachloroethene	0.33	0.82	ND	2.21	5.53	ND	ND
108-90-7	Chlorobenzene	0.33	0.82	ND	1.50	3.76	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.84	2.09	ND	ND
100-41-4	Ethylbenzene	0.33	0.83	0.38	1.44	3.61	1.65	J
1330-20-7	m,p-Xylenes	0.66	1.65	1.27	2.86	7.15	5.49	J
111-84-2	Nonane	0.14	0.35	1.09	0.74	1.85	5.72	
100-42-5	Styrene	0.33	0.83	0.61	1.40	3.52	2.58	J
75-25-2	Bromoform	0.08	0.20	ND	0.82	2.05	ND	ND
95-47-6	o-Xylene	0.33	0.82	0.39	1.42	3.54	1.70	J
79-34-5	1,1,2,2-Tetrachloroethane	0.33	3.26	ND	2.24	22.39	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.36	ND	0.87	2.18	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.50	ND	1.01	2.53	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.39	0.22	0.81	2.04	1.14	J
106-43-4	4-Chlorotoluene	0.15	0.38	ND	0.79	1.99	ND	ND
103-65-1	n-Propylbenzene	0.22	0.55	ND	1.08	2.72	ND	ND
98-82-8	Isopropylbenzene	0.22	0.56	0.42	1.10	2.75	2.04	J
622-96-8	4-Ethyltoluene	0.18	0.45	0.39	0.89	2.23	1.90	J
108-67-8	1,3,5-Trimethylbenzene	0.34	0.85	ND	1.67	4.17	ND	ND
124-18-5	Decane	0.15	0.37	9.20	0.87	2.18	53.54	
98-06-6	tert-butyl benzene	0.20	0.49	ND	1.07	2.69	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.33	0.82	0.38	1.60	4.01	1.86	J
538-93-2	i-Butylbenzene	0.20	0.49	ND	1.07	2.69	ND	ND
135-98-8	sec-butylbenzene	0.21	0.52	ND	1.14	2.86	ND	ND
541-73-1	1,3-Dichlorobenzene	0.65	3.26	ND	3.92	19.61	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	0.21	1.12	2.86	1.13	J
100-44-7	Benzyl chloride	0.38	1.88	ND	1.95	9.74	ND	ND
106-46-7	1,4-Dichlorobenzene	0.65	3.26	ND	3.92	19.61	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	ND	1.05	2.86	ND	ND
95-50-1	1,2-Dichlorobenzene	0.64	3.20	ND	3.85	19.23	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.43	2.14	ND	4.14	20.71	ND	ND
78-00-2	Tetraethyl lead	0.15	0.77	ND	2.03	10.15	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.32	3.30	ND	9.78	24.44	ND	ND

91-20-3	Naphthalene	0.28	0.70	ND	1.48	3.69	ND	ND
87-68-3	Hexachlorobutadiene	0.66	3.30	ND	7.03	35.14	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.91	89	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 12**

Description: 2372-21-12 **Date Sampled:** 11/04/11 **Time:** 15:12
Can/Tube#: 330 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 13:33
Air Volume: 500 ml **Can Dilution Factor:** 1.58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	0.83	0.70	1.64	4.11	3.46	J
74-87-3	Chloromethane	0.32	0.81	0.79	0.67	1.66	1.62	J
76-14-2	Freon 114	0.33	0.82	ND	2.30	5.74	ND	ND
75-01-4	Vinyl chloride	0.33	0.82	ND	0.84	2.10	ND	ND
106-99-0	1,3-Butadiene	0.34	0.85	ND	0.75	1.87	ND	ND
74-83-9	Bromomethane	0.33	0.82	ND	1.27	3.19	ND	ND
75-00-3	Chloroethane	0.33	0.82	ND	0.87	2.17	ND	ND
64-17-5	Ethanol	1.09	2.72	16.48	2.05	5.12	31.06	
75-69-4	Trichlorofluoromethane	0.33	0.82	0.53	1.85	4.61	2.96	J
67-64-1	Acetone	0.72	0.89	46.15	1.70	2.12	109.60	B
67-63-0	2-propanol	0.83	4.14	5.69	2.03	10.17	13.98	
75-65-0	t-Butanol	0.24	0.59	2.95	0.72	1.80	8.95	
4227-95-6	Methyl iodide	0.09	0.24	ND	0.55	1.38	ND	ND
75-35-4	1,1-Dichloroethene	0.64	1.60	ND	2.53	6.33	ND	ND
107-13-1	Acrylonitrile	0.37	0.92	ND	0.80	1.99	ND	ND
76-13-1	Freon 113	0.32	0.81	ND	2.47	6.17	ND	ND
107-05-1	Allyl chloride	0.28	0.71	0.57	0.87	2.22	1.79	J
75-09-2	Dichloromethane	0.33	0.82	0.51	1.14	2.85	1.77	J
75-15-0	Carbon disulfide	0.27	0.68	ND	0.84	2.10	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	0.52	ND	0.83	2.08	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	0.54	ND	0.77	1.93	ND	ND
107-12-0	Propionitrile	0.30	0.75	ND	0.68	1.69	ND	ND
75-34-3	1,1-Dichloroethane	0.32	0.80	ND	1.29	3.24	ND	ND
108-05-4	Vinyl acetate	0.26	0.64	ND	0.90	2.25	ND	ND
78-93-3	2-Butanone	0.30	0.74	2.05	0.87	2.18	6.05	
108-20-3	Diisopropyl ether	0.20	0.50	ND	0.83	2.07	ND	ND
110-54-3	Hexane	0.21	0.54	1.51	0.76	1.89	5.31	
126-98-7	Methacrylonitrile	0.30	0.75	ND	0.82	2.06	ND	ND
141-78-6	Ethyl acetate	0.25	0.64	1.96	0.92	2.30	7.06	
74-97-5	Bromochloromethane	0.15	0.39	ND	0.82	2.06	ND	ND
109-99-9	Tetrahydrofuran	0.36	0.91	0.97	1.07	2.68	2.85	
78-83-1	Isobutyl alcohol	0.48	2.40	ND	1.45	7.27	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	0.82	ND	1.29	3.23	ND	ND
594-20-7	2,2-Dichloropropane	0.26	0.65	ND	1.20	2.99	ND	ND
67-66-3	Chloroform	0.32	0.81	ND	1.57	3.93	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	0.81	ND	1.76	4.39	ND	ND
107-06-2	1,2-Dichloroethane	0.33	0.82	ND	1.32	3.30	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.48	ND	0.87	2.18	ND	ND
110-82-7	Cyclohexane	0.22	0.56	ND	0.77	1.91	ND	ND
71-43-2	Benzene	0.65	0.82	ND	2.08	2.60	ND	ND
56-23-5	Carbon tetrachloride	0.32	0.81	ND	2.03	5.07	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.40	0.16	0.74	1.84	0.76	J
142-82-5	n-Heptane	0.18	0.44	0.45	0.72	1.81	1.85	
78-87-5	1,2-Dichloropropane	0.33	0.82	ND	1.50	3.77	ND	ND
123-91-1	1,4 Dioxane	0.59	5.94	ND	2.14	21.40	ND	ND
74-95-3	Dibromomethane	0.11	0.27	ND	0.78	1.93	ND	ND
79-01-6	Trichloroethene	0.33	0.82	ND	1.75	4.38	ND	ND
75-27-4	Bromodichloromethane	0.12	0.29	ND	0.78	1.97	ND	ND
80-62-6	Methyl methacrylate	0.20	0.49	ND	0.80	2.02	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	0.55	ND	0.90	2.25	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.33	0.84	ND	1.52	3.80	ND	ND
108-88-3	Toluene	0.65	0.82	6.78	2.45	3.07	25.52	
10061-02-6	trans-1,3-Dichloropropene	0.33	0.82	ND	1.49	3.73	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	0.81	0.46	1.76	4.39	2.51	J
97-63-2	Ethyl methacrylate	0.17	0.43	ND	0.81	2.02	ND	ND
591-78-6	2-Hexanone	0.21	0.52	0.26	0.85	2.11	1.05	J
142-28-9	1,3-Dichloropropane	0.19	0.48	ND	0.88	2.20	ND	ND
111-65-9	Octane	0.16	0.40	3.75	0.74	1.86	17.53	
124-48-1	Dibromochloromethane	0.12	0.29	ND	0.99	2.48	ND	ND
106-93-4	1,2-Dibromoethane	0.33	0.82	ND	2.52	6.31	ND	ND
127-18-4	Tetrachloroethene	0.32	0.81	ND	2.18	5.46	ND	ND
108-90-7	Chlorobenzene	0.32	0.81	ND	1.48	3.71	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.30	ND	0.83	2.06	ND	ND
100-41-4	Ethylbenzene	0.33	0.82	0.62	1.43	3.57	2.68	J
1330-20-7	m,p-Xylenes	0.65	1.63	2.87	2.83	7.07	12.44	
111-84-2	Nonane	0.14	0.35	0.90	0.73	1.82	4.70	
100-42-5	Styrene	0.33	0.82	0.55	1.39	3.47	2.35	J
75-25-2	Bromoform	0.08	0.20	ND	0.81	2.02	ND	ND
95-47-6	o-Xylene	0.32	0.81	1.10	1.40	3.50	4.77	
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.22	ND	2.21	22.11	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.36	ND	0.86	2.15	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.49	ND	1.00	2.50	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.39	ND	0.80	2.01	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.38	0.17	0.78	1.96	0.90	J
103-65-1	n-Propylbenzene	0.22	0.55	0.38	1.07	2.69	1.87	J
98-82-8	Isopropylbenzene	0.22	0.55	1.65	1.09	2.72	8.10	
622-96-8	4-Ethyltoluene	0.18	0.45	0.75	0.88	2.20	3.67	
108-67-8	1,3,5-Trimethylbenzene	0.33	0.84	0.68	1.65	4.11	3.37	J
124-18-5	Decane	0.15	0.37	4.60	0.86	2.15	26.73	
98-06-6	tert-butyl benzene	0.19	0.48	0.35	1.06	2.65	1.90	J
95-63-6	1,2,4-Trimethylbenzene	0.32	0.81	2.21	1.58	3.96	10.86	
538-93-2	i-Butylbenzene	0.19	0.48	ND	1.06	2.65	ND	ND
135-98-8	sec-butylbenzene	0.21	0.52	ND	1.13	2.83	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	0.22	1.11	2.83	1.21	J
100-44-7	Benzyl chloride	0.37	1.86	ND	1.92	9.62	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	0.38	1.04	2.83	2.11	J
95-50-1	1,2-Dichlorobenzene	0.63	3.16	ND	3.80	18.99	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.12	ND	4.09	20.45	ND	ND
78-00-2	Tetraethyl lead	0.15	0.76	ND	2.01	10.03	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.30	3.25	ND	9.65	24.14	ND	ND

91-20-3	Naphthalene	0.28	0.70	3.09	1.46	3.64	16.19	
87-68-3	Hexachlorobutadiene	0.65	3.25	ND	6.94	34.70	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.10	81	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 13**

Description: 2372-21-13 **Date Sampled:** 11/04/11 **Time:** 15:32
Can/Tube#: 347 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 14:12
Air Volume: 500 ml **Can Dilution Factor:** 1.66

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.35	0.87	0.66	1.72	4.32	3.28	J
74-87-3	Chloromethane	0.34	0.85	1.17	0.70	1.75	2.41	
76-14-2	Freon 114	0.35	0.86	ND	2.41	6.03	ND	ND
75-01-4	Vinyl chloride	0.35	0.86	ND	0.88	2.21	ND	ND
106-99-0	1,3-Butadiene	0.36	0.89	ND	0.79	1.97	ND	ND
74-83-9	Bromomethane	0.35	0.86	ND	1.34	3.35	ND	ND
75-00-3	Chloroethane	0.35	0.86	ND	0.91	2.28	ND	ND
64-17-5	Ethanol	1.14	2.86	ND	2.15	5.38	ND	ND
75-69-4	Trichlorofluoromethane	0.35	0.86	0.54	1.94	4.85	3.03	J
67-64-1	Acetone	0.75	0.94	31.77	1.79	2.23	75.46	B
67-63-0	2-propanol	0.87	4.35	7.15	2.14	10.69	17.57	
75-65-0	t-Butanol	0.25	0.62	2.17	0.76	1.89	6.56	
4227-95-6	Methyl iodide	0.10	0.25	ND	0.58	1.45	ND	ND
75-35-4	1,1-Dichloroethene	0.67	1.68	ND	2.66	6.65	ND	ND
107-13-1	Acrylonitrile	0.39	0.96	ND	0.84	2.09	ND	ND
76-13-1	Freon 113	0.34	0.85	ND	2.59	6.49	ND	ND
107-05-1	Allyl chloride	0.29	0.75	0.67	0.92	2.34	2.08	J
75-09-2	Dichloromethane	0.35	0.86	ND	1.20	3.00	ND	ND
75-15-0	Carbon disulfide	0.28	0.71	ND	0.88	2.21	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.22	0.55	ND	0.87	2.18	ND	ND
1634-04-4	Methyl tert butyl ether	0.23	0.56	ND	0.81	2.03	ND	ND
107-12-0	Propionitrile	0.32	0.79	ND	0.71	1.78	ND	ND
75-34-3	1,1-Dichloroethane	0.34	0.84	ND	1.36	3.40	ND	ND
108-05-4	Vinyl acetate	0.27	0.67	ND	0.95	2.36	ND	ND
78-93-3	2-Butanone	0.31	0.78	3.12	0.92	2.29	9.19	
108-20-3	Diisopropyl ether	0.21	0.52	ND	0.87	2.18	ND	ND
110-54-3	Hexane	0.23	0.56	1.92	0.80	1.99	6.75	
126-98-7	Methacrylonitrile	0.32	0.79	ND	0.87	2.17	ND	ND
141-78-6	Ethyl acetate	0.27	0.67	2.68	0.96	2.42	9.64	
74-97-5	Bromochloromethane	0.16	0.41	ND	0.86	2.16	ND	ND
109-99-9	Tetrahydrofuran	0.38	0.96	0.90	1.13	2.82	2.64	J
78-83-1	Isobutyl alcohol	0.50	2.52	ND	1.53	7.64	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.34	0.86	ND	1.35	3.39	ND	ND
594-20-7	2,2-Dichloropropane	0.27	0.68	ND	1.26	3.14	ND	ND
67-66-3	Chloroform	0.34	0.85	ND	1.65	4.13	ND	ND
71-55-6	1,1,1-Trichloroethane	0.34	0.85	ND	1.85	4.62	ND	ND
107-06-2	1,2-Dichloroethane	0.34	0.86	ND	1.38	3.47	ND	ND

563-58-6	1,1-Dichloropropene	0.20	0.50	ND	0.91	2.29	ND	ND
110-82-7	Cyclohexane	0.23	0.58	5.10	0.81	2.01	17.57	
71-43-2	Benzene	0.68	0.86	ND	2.18	2.73	ND	ND
56-23-5	Carbon tetrachloride	0.34	0.85	ND	2.13	5.32	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.17	0.42	ND	0.78	1.94	ND	ND
142-82-5	n-Heptane	0.19	0.46	0.30	0.76	1.90	1.25	J
78-87-5	1,2-Dichloropropane	0.34	0.86	ND	1.58	3.96	ND	ND
123-91-1	1,4 Dioxane	0.62	6.24	1.18	2.25	22.48	4.25	J
74-95-3	Dibromomethane	0.11	0.29	ND	0.82	2.03	ND	ND
79-01-6	Trichloroethene	0.34	0.86	ND	1.84	4.60	ND	ND
75-27-4	Bromodichloromethane	0.12	0.31	ND	0.82	2.07	ND	ND
80-62-6	Methyl methacrylate	0.21	0.52	ND	0.85	2.12	ND	ND
108-10-1	4-Methyl-2-pentanone	0.23	0.58	0.29	0.95	2.37	1.20	J
10061-01-5	cis-1,3-Dichloropropene	0.35	0.88	ND	1.60	3.99	ND	ND
108-88-3	Toluene	0.68	0.86	6.62	2.57	3.22	24.93	
10061-02-6	trans-1,3-Dichloropropene	0.35	0.86	ND	1.57	3.92	ND	ND
79-00-5	1,1,2-Trichloroethane	0.34	0.85	0.44	1.85	4.62	2.42	J
97-63-2	Ethyl methacrylate	0.18	0.45	ND	0.85	2.12	ND	ND
591-78-6	2-Hexanone	0.22	0.54	0.38	0.89	2.22	1.56	J
142-28-9	1,3-Dichloropropane	0.20	0.50	ND	0.93	2.32	ND	ND
111-65-9	Octane	0.17	0.42	2.89	0.78	1.95	13.50	
124-48-1	Dibromochloromethane	0.12	0.31	ND	1.04	2.60	ND	ND
106-93-4	1,2-Dibromoethane	0.35	0.86	ND	2.65	6.63	ND	ND
127-18-4	Tetrachloroethene	0.34	0.85	ND	2.30	5.74	ND	ND
108-90-7	Chlorobenzene	0.34	0.85	ND	1.56	3.90	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.32	ND	0.87	2.16	ND	ND
100-41-4	Ethylbenzene	0.35	0.86	0.39	1.50	3.75	1.69	J
1330-20-7	m,p-Xylenes	0.68	1.71	1.12	2.97	7.42	4.87	J
111-84-2	Nonane	0.15	0.37	0.80	0.76	1.92	4.21	
100-42-5	Styrene	0.34	0.86	0.60	1.46	3.65	2.57	J
75-25-2	Bromoform	0.08	0.21	ND	0.85	2.13	ND	ND
95-47-6	o-Xylene	0.34	0.85	0.38	1.47	3.68	1.66	J
79-34-5	1,1,2,2-Tetrachloroethane	0.34	3.39	ND	2.32	23.23	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.38	ND	0.91	2.26	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.21	0.51	ND	1.05	2.63	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.41	ND	0.84	2.11	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.40	ND	0.82	2.06	ND	ND
103-65-1	n-Propylbenzene	0.23	0.57	ND	1.13	2.82	ND	ND
98-82-8	Isopropylbenzene	0.23	0.58	0.30	1.14	2.85	1.48	J
622-96-8	4-Ethyltoluene	0.19	0.47	0.62	0.93	2.32	3.05	
108-67-8	1,3,5-Trimethylbenzene	0.35	0.88	ND	1.73	4.32	ND	ND
124-18-5	Decane	0.15	0.39	2.81	0.90	2.26	16.37	
98-06-6	tert-butyl benzene	0.20	0.51	ND	1.11	2.79	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.34	0.85	0.38	1.66	4.16	1.88	J
538-93-2	i-Butylbenzene	0.20	0.51	ND	1.11	2.79	ND	ND
135-98-8	sec-butylbenzene	0.22	0.54	ND	1.18	2.97	ND	ND
541-73-1	1,3-Dichlorobenzene	0.68	3.39	ND	4.07	20.35	ND	ND
99-87-6	Isopropyltoluene	0.21	0.54	0.24	1.17	2.97	1.31	J
100-44-7	Benzyl chloride	0.39	1.95	ND	2.02	10.10	ND	ND
106-46-7	1,4-Dichlorobenzene	0.68	3.39	ND	4.07	20.35	ND	ND
104-51-8	n-Butylbenzene	0.20	0.54	ND	1.09	2.97	ND	ND
95-50-1	1,2-Dichlorobenzene	0.66	3.32	ND	3.99	19.95	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.44	2.22	ND	4.30	21.49	ND	ND
78-00-2	Tetraethyl lead	0.16	0.80	ND	2.11	10.53	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.37	3.42	ND	10.14	25.36	ND	ND

91-20-3	Naphthalene	0.29	0.73	2.83	1.53	3.83	14.83	
87-68-3	Hexachlorobutadiene	0.68	3.42	ND	7.29	36.46	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.19	82	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 14**

Description: 2372-21-14 **Date Sampled:** 11/04/11 **Time:** 15:34
Can/Tube#: 393 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 14:53
Air Volume: 500 ml **Can Dilution Factor:** 1.43

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.30	0.75	ND	1.48	3.72	ND	ND
74-87-3	Chloromethane	0.29	0.73	ND	0.60	1.51	ND	ND
76-14-2	Freon 114	0.30	0.74	ND	2.08	5.20	ND	ND
75-01-4	Vinyl chloride	0.30	0.74	ND	0.76	1.90	ND	ND
106-99-0	1,3-Butadiene	0.31	0.77	ND	0.68	1.70	ND	ND
74-83-9	Bromomethane	0.30	0.74	ND	1.15	2.88	ND	ND
75-00-3	Chloroethane	0.30	0.74	ND	0.78	1.96	ND	ND
64-17-5	Ethanol	0.98	2.46	1.08	1.85	4.64	2.03	J
75-69-4	Trichlorofluoromethane	0.30	0.74	0.54	1.67	4.18	3.01	J
67-64-1	Acetone	0.65	0.81	24.29	1.54	1.92	57.70	B
67-63-0	2-propanol	0.75	3.75	ND	1.84	9.20	ND	ND
75-65-0	t-Butanol	0.22	0.54	1.04	0.65	1.63	3.15	
4227-95-6	Methyl iodide	0.09	0.21	ND	0.50	1.25	ND	ND
75-35-4	1,1-Dichloroethene	0.58	1.45	ND	2.29	5.73	ND	ND
107-13-1	Acrylonitrile	0.33	0.83	ND	0.72	1.80	ND	ND
76-13-1	Freon 113	0.29	0.73	ND	2.23	5.59	ND	ND
107-05-1	Allyl chloride	0.25	0.64	ND	0.79	2.01	ND	ND
75-09-2	Dichloromethane	0.30	0.74	0.44	1.03	2.58	1.54	J
75-15-0	Carbon disulfide	0.24	0.61	ND	0.76	1.90	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.19	0.47	ND	0.75	1.88	ND	ND
1634-04-4	Methyl tert butyl ether	0.19	0.49	ND	0.70	1.75	ND	ND
107-12-0	Propionitrile	0.27	0.68	ND	0.61	1.53	ND	ND
75-34-3	1,1-Dichloroethane	0.29	0.72	ND	1.17	2.93	ND	ND
108-05-4	Vinyl acetate	0.23	0.58	0.27	0.81	2.03	0.94	J
78-93-3	2-Butanone	0.27	0.67	1.66	0.79	1.97	4.90	
108-20-3	Diisopropyl ether	0.18	0.45	ND	0.75	1.88	ND	ND
110-54-3	Hexane	0.19	0.49	1.46	0.69	1.71	5.15	
126-98-7	Methacrylonitrile	0.27	0.68	ND	0.75	1.87	ND	ND
141-78-6	Ethyl acetate	0.23	0.58	6.31	0.83	2.08	22.71	
74-97-5	Bromochloromethane	0.14	0.35	ND	0.74	1.86	ND	ND
109-99-9	Tetrahydrofuran	0.33	0.82	0.54	0.97	2.43	1.59	J
78-83-1	Isobutyl alcohol	0.43	2.17	ND	1.32	6.58	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.29	0.74	ND	1.17	2.92	ND	ND
594-20-7	2,2-Dichloropropane	0.23	0.59	ND	1.08	2.71	ND	ND
67-66-3	Chloroform	0.29	0.73	ND	1.42	3.56	ND	ND
71-55-6	1,1,1-Trichloroethane	0.29	0.73	ND	1.59	3.98	ND	ND
107-06-2	1,2-Dichloroethane	0.29	0.74	ND	1.19	2.99	ND	ND

563-58-6	1,1-Dichloropropene	0.17	0.43	ND	0.79	1.97	ND	ND
110-82-7	Cyclohexane	0.20	0.50	0.41	0.69	1.73	1.40	J
71-43-2	Benzene	0.59	0.74	0.71	1.88	2.36	2.28	J
56-23-5	Carbon tetrachloride	0.29	0.73	ND	1.83	4.59	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.14	0.36	0.18	0.67	1.67	0.82	J
142-82-5	n-Heptane	0.16	0.40	0.32	0.65	1.64	1.30	J
78-87-5	1,2-Dichloropropane	0.29	0.74	ND	1.36	3.41	ND	ND
123-91-1	1,4 Dioxane	0.54	5.38	ND	1.94	19.36	ND	ND
74-95-3	Dibromomethane	0.10	0.25	ND	0.70	1.75	ND	ND
79-01-6	Trichloroethene	0.29	0.74	ND	1.58	3.96	ND	ND
75-27-4	Bromodichloromethane	0.11	0.27	ND	0.71	1.78	ND	ND
80-62-6	Methyl methacrylate	0.18	0.45	ND	0.73	1.83	ND	ND
108-10-1	4-Methyl-2-pentanone	0.20	0.50	0.22	0.82	2.04	0.88	J
10061-01-5	cis-1,3-Dichloropropene	0.30	0.76	ND	1.38	3.44	ND	ND
108-88-3	Toluene	0.59	0.74	6.81	2.22	2.78	25.64	
10061-02-6	trans-1,3-Dichloropropene	0.30	0.74	ND	1.35	3.37	ND	ND
79-00-5	1,1,2-Trichloroethane	0.29	0.73	0.50	1.59	3.98	2.72	J
97-63-2	Ethyl methacrylate	0.16	0.39	ND	0.73	1.83	ND	ND
591-78-6	2-Hexanone	0.19	0.47	0.24	0.76	1.91	0.97	J
142-28-9	1,3-Dichloropropane	0.17	0.43	ND	0.80	1.99	ND	ND
111-65-9	Octane	0.14	0.36	2.57	0.67	1.68	12.01	
124-48-1	Dibromochloromethane	0.10	0.26	ND	0.89	2.24	ND	ND
106-93-4	1,2-Dibromoethane	0.30	0.74	ND	2.28	5.71	ND	ND
127-18-4	Tetrachloroethene	0.29	0.73	ND	1.98	4.94	ND	ND
108-90-7	Chlorobenzene	0.29	0.73	ND	1.34	3.36	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.27	ND	0.75	1.86	ND	ND
100-41-4	Ethylbenzene	0.30	0.74	ND	1.29	3.23	ND	ND
1330-20-7	m,p-Xylenes	0.59	1.47	0.75	2.56	6.39	3.24	J
111-84-2	Nonane	0.13	0.31	0.45	0.66	1.65	2.35	
100-42-5	Styrene	0.29	0.74	0.38	1.25	3.14	1.64	J
75-25-2	Bromoform	0.07	0.18	ND	0.73	1.83	ND	ND
95-47-6	o-Xylene	0.29	0.73	ND	1.27	3.17	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.29	2.92	ND	2.00	20.01	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.32	ND	0.78	1.95	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.18	0.44	ND	0.91	2.27	ND	ND
95-49-8	2-Chlorotoluene	0.14	0.35	ND	0.73	1.82	ND	ND
106-43-4	4-Chlorotoluene	0.14	0.34	ND	0.71	1.78	ND	ND
103-65-1	n-Propylbenzene	0.20	0.49	ND	0.97	2.43	ND	ND
98-82-8	Isopropylbenzene	0.20	0.50	0.23	0.98	2.46	1.15	J
622-96-8	4-Ethyltoluene	0.16	0.41	0.21	0.80	2.00	1.04	J
108-67-8	1,3,5-Trimethylbenzene	0.30	0.76	ND	1.49	3.72	ND	ND
124-18-5	Decane	0.13	0.33	2.74	0.78	1.95	15.95	
98-06-6	tert-butyl benzene	0.17	0.44	ND	0.96	2.40	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	0.73	ND	1.43	3.58	ND	ND
538-93-2	i-Butylbenzene	0.17	0.44	ND	0.96	2.40	ND	ND
135-98-8	sec-butylbenzene	0.19	0.47	ND	1.02	2.56	ND	ND
541-73-1	1,3-Dichlorobenzene	0.58	2.92	ND	3.51	17.53	ND	ND
99-87-6	Isopropyltoluene	0.18	0.47	ND	1.00	2.56	ND	ND
100-44-7	Benzyl chloride	0.34	1.68	ND	1.74	8.70	ND	ND
106-46-7	1,4-Dichlorobenzene	0.58	2.92	ND	3.51	17.53	ND	ND
104-51-8	n-Butylbenzene	0.17	0.47	ND	0.94	2.56	ND	ND
95-50-1	1,2-Dichlorobenzene	0.57	2.86	ND	3.44	17.19	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.38	1.92	ND	3.70	18.51	ND	ND
78-00-2	Tetraethyl lead	0.14	0.69	ND	1.81	9.07	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.18	2.95	ND	8.74	21.84	ND	ND

91-20-3	Naphthalene	0.25	0.63	0.64	1.32	3.30	3.36	
87-68-3	Hexachlorobutadiene	0.59	2.95	ND	6.28	31.41	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.68	87	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 15**

Description: 2372-21-15 **Date Sampled:** 11/04/11 **Time:** 14:59
Can/Tube#: 349 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 14:03
Air Volume: 500 ml **Can Dilution Factor:** 1.33

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.28	1.40	0.77	1.38	6.90	3.79	J
74-87-3	Chloromethane	0.27	1.36	1.61	0.56	2.80	3.32	
76-14-2	Freon 114	0.28	1.38	ND	1.93	9.66	ND	ND
75-01-4	Vinyl chloride	0.28	1.38	ND	0.71	3.53	ND	ND
106-99-0	1,3-Butadiene	0.28	1.42	ND	0.63	3.15	ND	ND
74-83-9	Bromomethane	0.28	1.38	ND	1.07	5.37	ND	ND
75-00-3	Chloroethane	0.28	1.38	ND	0.73	3.65	ND	ND
64-17-5	Ethanol	0.92	4.58	21.39	1.72	8.62	40.31	
75-69-4	Trichlorofluoromethane	0.28	1.38	0.40	1.55	7.77	2.23	J
67-64-1	Acetone	0.60	1.51	32.17	1.43	3.58	76.41	B
67-63-0	2-propanol	0.70	3.48	4.41	1.71	8.56	10.83	
75-65-0	t-Butanol	0.20	1.00	0.81	0.61	3.04	2.44	J
4227-95-6	Methyl iodide	0.08	0.40	ND	0.47	2.33	ND	ND
75-35-4	1,1-Dichloroethene	0.54	2.69	ND	2.13	10.64	ND	ND
107-13-1	Acrylonitrile	0.31	1.54	ND	0.67	3.35	ND	ND
76-13-1	Freon 113	0.27	1.36	ND	2.08	10.39	ND	ND
107-05-1	Allyl chloride	0.24	1.18	ND	0.74	3.69	ND	ND
75-09-2	Dichloromethane	0.28	1.38	0.60	0.96	4.80	2.07	J
75-15-0	Carbon disulfide	0.23	1.59	0.73	0.71	4.96	2.28	J
156-60-5	trans-1,2-Dichloroethene	0.18	1.24	ND	0.70	4.90	ND	ND
1634-04-4	Methyl tert butyl ether	0.18	0.90	ND	0.65	3.26	ND	ND
107-12-0	Propionitrile	0.25	1.26	ND	0.57	2.85	ND	ND
75-34-3	1,1-Dichloroethane	0.27	1.34	ND	1.09	5.44	ND	ND
108-05-4	Vinyl acetate	0.22	1.08	0.66	0.76	3.79	2.34	J
78-93-3	2-Butanone	0.25	1.25	1.82	0.73	3.68	5.36	
108-20-3	Diisopropyl ether	0.17	0.84	ND	0.70	3.49	ND	ND
110-54-3	Hexane	0.18	0.90	2.53	0.64	3.19	8.90	
126-98-7	Methacrylonitrile	0.25	1.26	ND	0.69	3.47	ND	ND
141-78-6	Ethyl acetate	0.21	1.07	9.16	0.77	3.86	32.97	
74-97-5	Bromochloromethane	0.13	0.65	ND	0.69	3.45	ND	ND
109-99-9	Tetrahydrofuran	0.31	1.53	0.91	0.90	4.51	2.68	J
78-83-1	Isobutyl alcohol	0.40	2.02	ND	1.22	6.12	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.27	1.37	ND	1.09	5.43	ND	ND
594-20-7	2,2-Dichloropropane	0.22	1.09	ND	1.01	5.04	ND	ND
67-66-3	Chloroform	0.27	1.36	ND	1.32	6.62	ND	ND
71-55-6	1,1,1-Trichloroethane	0.27	1.36	ND	1.48	7.40	ND	ND
107-06-2	1,2-Dichloroethane	0.27	1.37	ND	1.11	5.54	ND	ND

563-58-6	1,1-Dichloropropene	0.16	0.81	ND	0.73	3.66	ND	ND
110-82-7	Cyclohexane	0.19	0.94	0.56	0.65	3.23	1.92	J
71-43-2	Benzene	0.55	1.37	1.08	1.75	4.37	3.44	J
56-23-5	Carbon tetrachloride	0.27	1.36	ND	1.71	8.53	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.13	0.67	0.20	0.62	3.12	0.94	J
142-82-5	n-Heptane	0.15	0.74	0.88	0.61	3.04	3.59	
78-87-5	1,2-Dichloropropane	0.27	1.37	ND	1.27	6.33	ND	ND
123-91-1	1,4 Dioxane	0.50	5.00	ND	1.80	18.01	ND	ND
74-95-3	Dibromomethane	0.09	0.46	ND	0.65	3.27	ND	ND
79-01-6	Trichloroethene	0.27	1.37	ND	1.47	7.36	ND	ND
75-27-4	Bromodichloromethane	0.10	0.49	ND	0.66	3.30	ND	ND
80-62-6	Methyl methacrylate	0.17	0.83	ND	0.68	3.39	ND	ND
108-10-1	4-Methyl-2-pentanone	0.19	0.93	0.29	0.76	3.79	1.19	J
10061-01-5	cis-1,3-Dichloropropene	0.28	1.41	ND	1.28	6.40	ND	ND
108-88-3	Toluene	0.55	1.37	18.12	2.06	5.16	68.23	
10061-02-6	trans-1,3-Dichloropropene	0.28	1.38	ND	1.26	6.28	ND	ND
79-00-5	1,1,2-Trichloroethane	0.27	1.36	1.42	1.48	7.40	7.75	
97-63-2	Ethyl methacrylate	0.15	0.73	ND	0.68	3.41	ND	ND
591-78-6	2-Hexanone	0.17	0.87	0.18	0.71	3.56	0.74	J
142-28-9	1,3-Dichloropropane	0.16	0.81	ND	0.74	3.72	ND	ND
111-65-9	Octane	0.13	0.67	0.92	0.62	3.12	4.29	
124-48-1	Dibromochloromethane	0.10	0.49	ND	0.83	4.17	ND	ND
106-93-4	1,2-Dibromoethane	0.28	1.38	ND	2.12	10.62	ND	ND
127-18-4	Tetrachloroethene	0.27	1.36	ND	1.84	9.19	ND	ND
108-90-7	Chlorobenzene	0.27	1.36	ND	1.25	6.24	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.51	ND	0.70	3.49	ND	ND
100-41-4	Ethylbenzene	0.28	1.38	0.28	1.20	6.01	1.21	J
1330-20-7	m,p-Xylenes	0.55	2.74	1.07	2.38	11.89	4.63	J
111-84-2	Nonane	0.12	0.58	0.55	0.61	3.06	2.89	J
100-42-5	Styrene	0.27	1.37	0.44	1.17	5.84	1.86	J
75-25-2	Bromoform	0.07	0.33	ND	0.68	3.41	ND	ND
95-47-6	o-Xylene	0.27	1.36	0.40	1.18	5.89	1.72	J
79-34-5	1,1,2,2-Tetrachloroethane	0.27	2.71	ND	1.86	18.61	ND	ND
96-18-4	1,2,3-Trichloropropane	0.12	0.60	ND	0.73	3.64	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.16	0.82	ND	0.84	4.21	ND	ND
95-49-8	2-Chlorotoluene	0.13	0.65	ND	0.67	3.37	ND	ND
106-43-4	4-Chlorotoluene	0.13	0.64	ND	0.66	3.30	ND	ND
103-65-1	n-Propylbenzene	0.18	0.92	ND	0.90	4.51	ND	ND
98-82-8	Isopropylbenzene	0.19	0.93	0.29	0.91	4.57	1.45	J
622-96-8	4-Ethyltoluene	0.15	0.76	0.20	0.74	3.71	1.01	J
108-67-8	1,3,5-Trimethylbenzene	0.28	1.41	ND	1.39	6.93	ND	ND
124-18-5	Decane	0.12	0.62	0.96	0.72	3.61	5.59	
98-06-6	tert-butyl benzene	0.16	0.81	ND	0.89	4.45	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.27	1.36	0.28	1.33	6.67	1.38	J
538-93-2	i-Butylbenzene	0.16	0.81	ND	0.89	4.45	ND	ND
135-98-8	sec-butylbenzene	0.17	0.86	ND	0.95	4.74	ND	ND
541-73-1	1,3-Dichlorobenzene	0.54	2.71	ND	3.26	16.30	ND	ND
99-87-6	Isopropyltoluene	0.17	0.43	ND	0.93	2.38	ND	ND
100-44-7	Benzyl chloride	0.31	1.56	ND	1.62	8.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.54	2.71	ND	3.26	16.30	ND	ND
104-51-8	n-Butylbenzene	0.16	0.43	ND	0.88	2.38	ND	ND
95-50-1	1,2-Dichlorobenzene	0.53	2.66	ND	3.20	15.98	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.36	1.78	ND	3.44	17.22	ND	ND
78-00-2	Tetraethyl lead	0.13	0.64	ND	1.69	8.44	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.10	2.74	ND	8.13	20.32	ND	ND

91-20-3	Naphthalene	0.23	0.59	ND	1.23	3.07	ND	ND
87-68-3	Hexachlorobutadiene	0.55	2.74	ND	5.84	29.21	ND	ND

		Spike	Measured		QC	Limits	Flag
	Surrogate Recovery	ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	10.00	9.76	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 16**

Description: 2372-21-16 **Date Sampled:** 11/04/11 **Time:** 15:15
Can/Tube#: 368 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 14:39
Air Volume: 500 ml **Can Dilution Factor:** 1.77

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.37	1.86	0.74	1.84	9.19	3.64	J
74-87-3	Chloromethane	0.36	1.81	3.45	0.75	3.73	7.13	
76-14-2	Freon 114	0.37	1.84	ND	2.57	12.86	ND	ND
75-01-4	Vinyl chloride	0.37	1.84	ND	0.94	4.70	ND	ND
106-99-0	1,3-Butadiene	0.38	1.89	0.43	0.84	4.19	0.95	J
74-83-9	Bromomethane	0.37	1.84	ND	1.43	7.14	ND	ND
75-00-3	Chloroethane	0.37	1.84	0.45	0.97	4.85	1.18	J
64-17-5	Ethanol	1.22	6.09	ND	2.29	11.47	ND	ND
75-69-4	Trichlorofluoromethane	0.37	1.84	0.57	2.07	10.34	3.21	J
67-64-1	Acetone	0.80	2.00	116.51	1.90	4.76	276.72	B
67-63-0	2-propanol	0.93	4.64	6.38	2.28	11.39	15.68	
75-65-0	t-Butanol	0.27	1.33	132.01	0.81	4.04	399.87	
4227-95-6	Methyl iodide	0.11	0.53	ND	0.62	3.10	ND	ND
75-35-4	1,1-Dichloroethene	0.72	3.58	ND	2.83	14.16	ND	ND
107-13-1	Acrylonitrile	0.41	2.05	ND	0.89	4.46	ND	ND
76-13-1	Freon 113	0.36	1.81	ND	2.77	13.83	ND	ND
107-05-1	Allyl chloride	0.31	1.57	ND	0.98	4.90	ND	ND
75-09-2	Dichloromethane	0.37	1.84	0.59	1.28	6.39	2.05	J
75-15-0	Carbon disulfide	0.30	2.12	0.34	0.94	6.60	1.07	J
156-60-5	trans-1,2-Dichloroethene	0.24	1.65	ND	0.93	6.52	ND	ND
1634-04-4	Methyl tert butyl ether	0.24	1.20	ND	0.87	4.33	ND	ND
107-12-0	Propionitrile	0.34	1.68	ND	0.76	3.79	ND	ND
75-34-3	1,1-Dichloroethane	0.36	1.79	ND	1.45	7.23	ND	ND
108-05-4	Vinyl acetate	0.29	1.43	ND	1.01	5.05	ND	ND
78-93-3	2-Butanone	0.33	1.66	1.73	0.98	4.89	5.09	
108-20-3	Diisopropyl ether	0.22	1.11	ND	0.93	4.64	ND	ND
110-54-3	Hexane	0.24	1.20	2.61	0.85	4.24	9.21	
126-98-7	Methacrylonitrile	0.34	1.68	ND	0.92	4.61	ND	ND
141-78-6	Ethyl acetate	0.29	1.43	8.68	1.03	5.14	31.26	
74-97-5	Bromochloromethane	0.17	0.87	ND	0.92	4.59	ND	ND
109-99-9	Tetrahydrofuran	0.41	2.04	ND	1.20	6.00	ND	ND
78-83-1	Isobutyl alcohol	0.54	2.69	ND	1.63	8.15	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.36	1.82	ND	1.44	7.22	ND	ND
594-20-7	2,2-Dichloropropane	0.29	1.45	ND	1.34	6.70	ND	ND
67-66-3	Chloroform	0.36	1.81	ND	1.76	8.81	ND	ND
71-55-6	1,1,1-Trichloroethane	0.36	1.81	ND	1.97	9.85	ND	ND
107-06-2	1,2-Dichloroethane	0.36	1.82	ND	1.48	7.38	ND	ND

563-58-6	1,1-Dichloropropene	0.21	1.07	ND	0.97	4.87	ND	ND
110-82-7	Cyclohexane	0.25	1.25	2.77	0.86	4.30	9.53	
71-43-2	Benzene	0.73	1.82	6.78	2.33	5.82	21.66	
56-23-5	Carbon tetrachloride	0.36	1.81	ND	2.27	11.35	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.18	0.89	0.33	0.83	4.15	1.53	J
142-82-5	n-Heptane	0.20	0.99	1.42	0.81	4.05	5.81	
78-87-5	1,2-Dichloropropane	0.36	1.82	ND	1.68	8.42	ND	ND
123-91-1	1,4 Dioxane	0.67	6.66	ND	2.40	23.97	ND	ND
74-95-3	Dibromomethane	0.12	0.61	ND	0.87	4.35	ND	ND
79-01-6	Trichloroethene	0.36	1.82	ND	1.96	9.79	ND	ND
75-27-4	Bromodichloromethane	0.13	0.65	ND	0.88	4.39	ND	ND
80-62-6	Methyl methacrylate	0.22	1.10	0.48	0.90	4.51	1.95	J
108-10-1	4-Methyl-2-pentanone	0.25	1.23	ND	1.01	5.05	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.38	1.88	ND	1.70	8.51	ND	ND
108-88-3	Toluene	0.73	1.82	20.86	2.75	6.86	78.52	
10061-02-6	trans-1,3-Dichloropropene	0.37	1.84	ND	1.67	8.35	ND	ND
79-00-5	1,1,2-Trichloroethane	0.36	1.81	1.64	1.97	9.85	8.97	J
97-63-2	Ethyl methacrylate	0.19	0.97	ND	0.91	4.54	ND	ND
591-78-6	2-Hexanone	0.23	1.16	0.47	0.95	4.74	1.92	J
142-28-9	1,3-Dichloropropane	0.21	1.07	ND	0.99	4.95	ND	ND
111-65-9	Octane	0.18	0.89	9.19	0.83	4.15	42.93	
124-48-1	Dibromochloromethane	0.13	0.65	ND	1.11	5.55	ND	ND
106-93-4	1,2-Dibromoethane	0.37	1.84	ND	2.83	14.14	ND	ND
127-18-4	Tetrachloroethene	0.36	1.81	ND	2.45	12.24	ND	ND
108-90-7	Chlorobenzene	0.36	1.81	ND	1.66	8.31	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.68	ND	0.93	4.64	ND	ND
100-41-4	Ethylbenzene	0.37	1.84	ND	1.60	7.99	ND	ND
1330-20-7	m,p-Xylenes	0.73	3.65	1.18	3.17	15.83	5.13	J
111-84-2	Nonane	0.16	0.78	0.90	0.81	4.07	4.71	
100-42-5	Styrene	0.36	1.82	0.59	1.55	7.77	2.52	J
75-25-2	Bromoform	0.09	0.44	ND	0.90	4.53	ND	ND
95-47-6	o-Xylene	0.36	1.81	0.47	1.57	7.84	2.03	J
79-34-5	1,1,2,2-Tetrachloroethane	0.36	3.61	ND	2.48	24.77	ND	ND
96-18-4	1,2,3-Trichloropropane	0.16	0.80	ND	0.97	4.84	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.22	1.10	ND	1.12	5.61	ND	ND
95-49-8	2-Chlorotoluene	0.17	0.87	ND	0.90	4.49	ND	ND
106-43-4	4-Chlorotoluene	0.17	0.85	ND	0.88	4.40	ND	ND
103-65-1	n-Propylbenzene	0.24	1.22	ND	1.20	6.00	ND	ND
98-82-8	Isopropylbenzene	0.25	1.24	0.40	1.22	6.09	1.98	J
622-96-8	4-Ethyltoluene	0.20	1.01	0.33	0.99	4.94	1.61	J
108-67-8	1,3,5-Trimethylbenzene	0.38	1.88	ND	1.84	9.22	ND	ND
124-18-5	Decane	0.16	0.82	3.09	0.96	4.80	17.95	
98-06-6	tert-butyl benzene	0.22	1.08	ND	1.18	5.92	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.36	1.81	ND	1.77	8.87	ND	ND
538-93-2	i-Butylbenzene	0.22	1.08	ND	1.18	5.92	ND	ND
135-98-8	sec-butylbenzene	0.23	1.15	ND	1.26	6.31	ND	ND
541-73-1	1,3-Dichlorobenzene	0.72	3.61	ND	4.34	21.70	ND	ND
99-87-6	Isopropyltoluene	0.23	0.58	ND	1.24	3.17	ND	ND
100-44-7	Benzyl chloride	0.42	2.08	ND	2.15	10.77	ND	ND
106-46-7	1,4-Dichlorobenzene	0.72	3.61	ND	4.34	21.70	ND	ND
104-51-8	n-Butylbenzene	0.21	0.58	ND	1.17	3.17	ND	ND
95-50-1	1,2-Dichlorobenzene	0.71	3.54	ND	4.25	21.27	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.47	2.37	ND	4.58	22.91	ND	ND
78-00-2	Tetraethyl lead	0.17	0.85	ND	2.25	11.23	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.46	3.65	ND	10.82	27.04	ND	ND

91-20-3	Naphthalene	0.31	0.78	ND	1.63	4.08	ND	ND
87-68-3	Hexachlorobutadiene	0.73	3.65	ND	7.77	38.87	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	11.66	117	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 17**

Description: 2372-21-17 **Date Sampled:** 11/04/11 **Time:** 14:47
Can/Tube#: 350 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 15:17
Air Volume: 500 ml **Can Dilution Factor:** 1.68

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.35	1.76	0.81	1.74	8.72	3.99	J
74-87-3	Chloromethane	0.34	1.71	1.16	0.71	3.54	2.40	J
76-14-2	Freon 114	0.35	1.75	ND	2.44	12.21	ND	ND
75-01-4	Vinyl chloride	0.35	1.75	ND	0.89	4.46	ND	ND
106-99-0	1,3-Butadiene	0.36	1.80	ND	0.80	3.98	ND	ND
74-83-9	Bromomethane	0.35	1.75	ND	1.36	6.78	ND	ND
75-00-3	Chloroethane	0.35	1.75	ND	0.92	4.61	ND	ND
64-17-5	Ethanol	1.16	5.78	6.30	2.18	10.89	11.88	
75-69-4	Trichlorofluoromethane	0.35	1.75	0.54	1.96	9.81	3.06	J
67-64-1	Acetone	0.76	1.90	43.00	1.81	4.52	102.12	B
67-63-0	2-propanol	0.88	4.40	9.97	2.16	10.81	24.48	
75-65-0	t-Butanol	0.25	1.27	1.06	0.77	3.84	3.20	J
4227-95-6	Methyl iodide	0.10	0.50	ND	0.59	2.94	ND	ND
75-35-4	1,1-Dichloroethene	0.68	3.39	ND	2.69	13.44	ND	ND
107-13-1	Acrylonitrile	0.39	1.95	ND	0.85	4.23	ND	ND
76-13-1	Freon 113	0.34	1.71	ND	2.63	13.13	ND	ND
107-05-1	Allyl chloride	0.30	1.49	ND	0.93	4.65	ND	ND
75-09-2	Dichloromethane	0.35	1.75	1.21	1.21	6.06	4.21	J
75-15-0	Carbon disulfide	0.29	2.01	ND	0.89	6.26	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.22	1.56	ND	0.88	6.19	ND	ND
1634-04-4	Methyl tert butyl ether	0.23	1.14	ND	0.82	4.11	ND	ND
107-12-0	Propionitrile	0.32	1.60	ND	0.72	3.59	ND	ND
75-34-3	1,1-Dichloroethane	0.34	1.70	ND	1.37	6.87	ND	ND
108-05-4	Vinyl acetate	0.27	1.36	0.46	0.96	4.79	1.62	J
78-93-3	2-Butanone	0.31	1.58	0.73	0.93	4.64	2.15	J
108-20-3	Diisopropyl ether	0.21	1.06	ND	0.88	4.41	ND	ND
110-54-3	Hexane	0.23	1.14	4.21	0.81	4.03	14.85	
126-98-7	Methacrylonitrile	0.32	1.60	ND	0.88	4.38	ND	ND
141-78-6	Ethyl acetate	0.27	1.35	4.69	0.98	4.88	16.88	
74-97-5	Bromochloromethane	0.16	0.82	ND	0.87	4.35	ND	ND
109-99-9	Tetrahydrofuran	0.39	1.93	0.56	1.14	5.69	1.64	J
78-83-1	Isobutyl alcohol	0.51	2.55	ND	1.55	7.74	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.35	1.73	ND	1.37	6.85	ND	ND
594-20-7	2,2-Dichloropropane	0.28	1.38	ND	1.27	6.36	ND	ND
67-66-3	Chloroform	0.34	1.71	ND	1.67	8.36	ND	ND
71-55-6	1,1,1-Trichloroethane	0.34	1.71	ND	1.87	9.34	ND	ND
107-06-2	1,2-Dichloroethane	0.35	1.73	ND	1.40	7.00	ND	ND

563-58-6	1,1-Dichloropropene	0.20	1.02	ND	0.92	4.62	ND	ND
110-82-7	Cyclohexane	0.24	1.19	0.57	0.82	4.08	1.97	J
71-43-2	Benzene	0.69	1.73	1.25	2.21	5.52	3.98	J
56-23-5	Carbon tetrachloride	0.34	1.71	ND	2.15	10.77	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.17	0.84	ND	0.79	3.94	ND	ND
142-82-5	n-Heptane	0.19	0.94	1.37	0.77	3.84	5.61	
78-87-5	1,2-Dichloropropane	0.35	1.73	ND	1.60	7.99	ND	ND
123-91-1	1,4 Dioxane	0.63	6.32	ND	2.27	22.75	ND	ND
74-95-3	Dibromomethane	0.12	0.58	ND	0.83	4.13	ND	ND
79-01-6	Trichloroethene	0.35	1.73	ND	1.86	9.29	ND	ND
75-27-4	Bromodichloromethane	0.12	0.62	ND	0.83	4.16	ND	ND
80-62-6	Methyl methacrylate	0.21	1.04	ND	0.86	4.28	ND	ND
108-10-1	4-Methyl-2-pentanone	0.23	1.17	0.26	0.96	4.79	1.07	J
10061-01-5	cis-1,3-Dichloropropene	0.36	1.78	ND	1.62	8.08	ND	ND
108-88-3	Toluene	0.69	1.73	15.33	2.61	6.51	57.72	
10061-02-6	trans-1,3-Dichloropropene	0.35	1.75	ND	1.59	7.93	ND	ND
79-00-5	1,1,2-Trichloroethane	0.34	1.71	1.29	1.87	9.34	7.01	J
97-63-2	Ethyl methacrylate	0.18	0.92	ND	0.86	4.31	ND	ND
591-78-6	2-Hexanone	0.22	1.10	ND	0.90	4.50	ND	ND
142-28-9	1,3-Dichloropropane	0.20	1.02	ND	0.94	4.70	ND	ND
111-65-9	Octane	0.17	0.84	2.62	0.79	3.94	12.24	
124-48-1	Dibromochloromethane	0.12	0.62	ND	1.05	5.26	ND	ND
106-93-4	1,2-Dibromoethane	0.35	1.75	ND	2.68	13.42	ND	ND
127-18-4	Tetrachloroethene	0.34	1.71	ND	2.32	11.61	ND	ND
108-90-7	Chlorobenzene	0.34	1.71	ND	1.58	7.89	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.64	ND	0.88	4.40	ND	ND
100-41-4	Ethylbenzene	0.35	1.75	ND	1.52	7.59	ND	ND
1330-20-7	m,p-Xylenes	0.69	3.46	0.95	3.00	15.02	4.13	J
111-84-2	Nonane	0.15	0.74	0.59	0.77	3.86	3.09	J
100-42-5	Styrene	0.35	1.73	0.48	1.47	7.37	2.03	J
75-25-2	Bromoform	0.08	0.42	ND	0.86	4.30	ND	ND
95-47-6	o-Xylene	0.34	1.71	ND	1.49	7.44	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.34	3.43	ND	2.35	23.51	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.76	ND	0.92	4.60	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.21	1.04	ND	1.06	5.32	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.82	ND	0.85	4.26	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.81	ND	0.83	4.17	ND	ND
103-65-1	n-Propylbenzene	0.23	1.16	ND	1.14	5.70	ND	ND
98-82-8	Isopropylbenzene	0.24	1.18	ND	1.16	5.78	ND	ND
622-96-8	4-Ethyltoluene	0.19	0.95	ND	0.94	4.69	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.36	1.78	ND	1.75	8.75	ND	ND
124-18-5	Decane	0.16	0.78	2.53	0.91	4.55	14.72	
98-06-6	tert-butyl benzene	0.20	1.02	ND	1.12	5.62	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.34	1.71	ND	1.68	8.42	ND	ND
538-93-2	i-Butylbenzene	0.20	1.02	ND	1.12	5.62	ND	ND
135-98-8	sec-butylbenzene	0.22	1.09	ND	1.20	5.99	ND	ND
541-73-1	1,3-Dichlorobenzene	0.69	3.43	ND	4.12	20.59	ND	ND
99-87-6	Isopropyltoluene	0.22	0.55	ND	1.18	3.00	ND	ND
100-44-7	Benzyl chloride	0.40	1.98	ND	2.04	10.22	ND	ND
106-46-7	1,4-Dichlorobenzene	0.69	3.43	ND	4.12	20.59	ND	ND
104-51-8	n-Butylbenzene	0.20	0.55	ND	1.11	3.00	ND	ND
95-50-1	1,2-Dichlorobenzene	0.67	3.36	ND	4.04	20.19	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.45	2.25	ND	4.35	21.75	ND	ND
78-00-2	Tetraethyl lead	0.16	0.81	ND	2.13	10.66	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.38	3.46	ND	10.27	25.66	ND	ND

91-20-3	Naphthalene	0.30	0.74	ND	1.55	3.87	ND	ND
87-68-3	Hexachlorobutadiene	0.69	3.46	ND	7.38	36.90	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.19	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 18**

Description: 2372-2-2 **Date Sampled:** 11/04/11 **Time:** 14:48
Can/Tube#: 346 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 15:55
Air Volume: 500 ml **Can Dilution Factor:** 1.67

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.35	1.75	ND	1.73	8.67	ND	ND
74-87-3	Chloromethane	0.34	1.70	0.78	0.70	3.52	1.60	J
76-14-2	Freon 114	0.35	1.74	ND	2.43	12.13	ND	ND
75-01-4	Vinyl chloride	0.35	1.74	ND	0.89	4.44	ND	ND
106-99-0	1,3-Butadiene	0.36	1.79	ND	0.79	3.95	ND	ND
74-83-9	Bromomethane	0.35	1.74	ND	1.35	6.74	ND	ND
75-00-3	Chloroethane	0.35	1.74	ND	0.92	4.58	ND	ND
64-17-5	Ethanol	1.15	5.74	ND	2.17	10.83	ND	ND
75-69-4	Trichlorofluoromethane	0.35	1.74	0.46	1.95	9.76	2.58	J
67-64-1	Acetone	0.76	1.89	57.67	1.80	4.49	136.98	B
67-63-0	2-propanol	0.88	4.38	3.77	2.15	10.75	9.27	J
75-65-0	t-Butanol	0.25	1.26	4.45	0.76	3.81	13.47	
4227-95-6	Methyl iodide	0.10	0.50	ND	0.59	2.93	ND	ND
75-35-4	1,1-Dichloroethene	0.67	3.37	ND	2.67	13.36	ND	ND
107-13-1	Acrylonitrile	0.39	1.94	ND	0.84	4.21	ND	ND
76-13-1	Freon 113	0.34	1.70	ND	2.61	13.05	ND	ND
107-05-1	Allyl chloride	0.30	1.48	ND	0.92	4.63	ND	ND
75-09-2	Dichloromethane	0.35	1.74	0.80	1.21	6.03	2.78	J
75-15-0	Carbon disulfide	0.29	2.00	ND	0.89	6.22	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.22	1.55	ND	0.88	6.15	ND	ND
1634-04-4	Methyl tert butyl ether	0.23	1.14	ND	0.82	4.09	ND	ND
107-12-0	Propionitrile	0.32	1.59	ND	0.71	3.57	ND	ND
75-34-3	1,1-Dichloroethane	0.34	1.69	ND	1.37	6.83	ND	ND
108-05-4	Vinyl acetate	0.27	1.35	ND	0.95	4.76	ND	ND
78-93-3	2-Butanone	0.31	1.57	1.81	0.92	4.62	5.32	
108-20-3	Diisopropyl ether	0.21	1.05	ND	0.88	4.38	ND	ND
110-54-3	Hexane	0.23	1.14	3.55	0.80	4.00	12.51	
126-98-7	Methacrylonitrile	0.32	1.59	ND	0.87	4.35	ND	ND
141-78-6	Ethyl acetate	0.27	1.35	ND	0.97	4.85	ND	ND
74-97-5	Bromochloromethane	0.16	0.82	ND	0.87	4.33	ND	ND
109-99-9	Tetrahydrofuran	0.38	1.92	ND	1.13	5.66	ND	ND
78-83-1	Isobutyl alcohol	0.51	2.54	ND	1.54	7.69	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.34	1.72	ND	1.36	6.81	ND	ND
594-20-7	2,2-Dichloropropane	0.27	1.37	ND	1.26	6.33	ND	ND
67-66-3	Chloroform	0.34	1.70	ND	1.66	8.31	ND	ND
71-55-6	1,1,1-Trichloroethane	0.34	1.70	ND	1.86	9.29	ND	ND
107-06-2	1,2-Dichloroethane	0.34	1.72	ND	1.39	6.96	ND	ND

563-58-6	1,1-Dichloropropene	0.20	1.01	ND	0.92	4.59	ND	ND
110-82-7	Cyclohexane	0.24	1.18	0.65	0.81	4.06	2.24	J
71-43-2	Benzene	0.69	1.72	0.74	2.20	5.49	2.36	J
56-23-5	Carbon tetrachloride	0.34	1.70	ND	2.14	10.71	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.17	0.84	0.17	0.78	3.91	0.78	J
142-82-5	n-Heptane	0.19	0.93	1.25	0.76	3.82	5.13	
78-87-5	1,2-Dichloropropane	0.34	1.72	ND	1.59	7.95	ND	ND
123-91-1	1,4 Dioxane	0.63	6.28	ND	2.26	22.61	ND	ND
74-95-3	Dibromomethane	0.12	0.58	ND	0.82	4.11	ND	ND
79-01-6	Trichloroethene	0.34	1.72	ND	1.85	9.24	ND	ND
75-27-4	Bromodichloromethane	0.12	0.62	ND	0.83	4.14	ND	ND
80-62-6	Methyl methacrylate	0.21	1.04	ND	0.85	4.25	ND	ND
108-10-1	4-Methyl-2-pentanone	0.23	1.16	0.34	0.95	4.76	1.39	J
10061-01-5	cis-1,3-Dichloropropene	0.35	1.77	ND	1.61	8.03	ND	ND
108-88-3	Toluene	0.69	1.72	7.12	2.59	6.48	26.82	
10061-02-6	trans-1,3-Dichloropropene	0.35	1.74	ND	1.58	7.88	ND	ND
79-00-5	1,1,2-Trichloroethane	0.34	1.70	0.57	1.86	9.29	3.14	J
97-63-2	Ethyl methacrylate	0.18	0.92	ND	0.86	4.29	ND	ND
591-78-6	2-Hexanone	0.22	1.09	ND	0.89	4.47	ND	ND
142-28-9	1,3-Dichloropropane	0.20	1.01	ND	0.93	4.67	ND	ND
111-65-9	Octane	0.17	0.84	2.28	0.78	3.91	10.63	
124-48-1	Dibromochloromethane	0.12	0.61	ND	1.04	5.23	ND	ND
106-93-4	1,2-Dibromoethane	0.35	1.74	ND	2.67	13.34	ND	ND
127-18-4	Tetrachloroethene	0.34	1.70	ND	2.31	11.55	ND	ND
108-90-7	Chlorobenzene	0.34	1.70	ND	1.57	7.84	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.64	ND	0.87	4.38	ND	ND
100-41-4	Ethylbenzene	0.35	1.74	0.36	1.51	7.54	1.56	J
1330-20-7	m,p-Xylenes	0.69	3.44	1.32	2.99	14.94	5.75	J
111-84-2	Nonane	0.15	0.73	0.61	0.77	3.84	3.21	J
100-42-5	Styrene	0.34	1.72	0.53	1.47	7.33	2.26	J
75-25-2	Bromoform	0.08	0.41	ND	0.85	4.28	ND	ND
95-47-6	o-Xylene	0.34	1.70	0.46	1.48	7.40	1.98	J
79-34-5	1,1,2,2-Tetrachloroethane	0.34	3.41	ND	2.34	23.37	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.76	ND	0.91	4.57	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.21	1.04	ND	1.06	5.29	ND	ND
95-49-8	2-Chlorotoluene	0.16	0.82	ND	0.85	4.23	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.80	ND	0.83	4.15	ND	ND
103-65-1	n-Propylbenzene	0.23	1.15	ND	1.13	5.66	ND	ND
98-82-8	Isopropylbenzene	0.23	1.17	0.40	1.15	5.74	1.98	J
622-96-8	4-Ethyltoluene	0.19	0.95	0.34	0.93	4.66	1.68	J
108-67-8	1,3,5-Trimethylbenzene	0.35	1.77	ND	1.74	8.70	ND	ND
124-18-5	Decane	0.16	0.78	4.46	0.91	4.53	25.97	
98-06-6	tert-butyl benzene	0.20	1.02	ND	1.12	5.59	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.34	1.70	0.40	1.67	8.37	1.95	J
538-93-2	i-Butylbenzene	0.20	1.02	ND	1.12	5.59	ND	ND
135-98-8	sec-butylbenzene	0.22	1.09	ND	1.19	5.96	ND	ND
541-73-1	1,3-Dichlorobenzene	0.68	3.41	ND	4.09	20.47	ND	ND
99-87-6	Isopropyltoluene	0.21	0.54	ND	1.17	2.99	ND	ND
100-44-7	Benzyl chloride	0.39	1.96	ND	2.03	10.16	ND	ND
106-46-7	1,4-Dichlorobenzene	0.68	3.41	ND	4.09	20.47	ND	ND
104-51-8	n-Butylbenzene	0.20	0.54	ND	1.10	2.99	ND	ND
95-50-1	1,2-Dichlorobenzene	0.67	3.34	ND	4.01	20.07	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.45	2.24	ND	4.32	21.62	ND	ND
78-00-2	Tetraethyl lead	0.16	0.80	ND	2.12	10.60	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.38	3.44	ND	10.20	25.51	ND	ND

91-20-3	Naphthalene	0.29	0.73	ND	1.54	3.85	ND	ND
87-68-3	Hexachlorobutadiene	0.69	3.44	ND	7.34	36.68	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.94	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 19**

Description: 2372-2-3 **Date Sampled:** 11/04/11 **Time:** 14:47
Can/Tube#: 933 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 16:33
Air Volume: 500 ml **Can Dilution Factor:** 1.38

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.29	1.45	ND	1.43	7.16	ND	ND
74-87-3	Chloromethane	0.28	1.41	ND	0.58	2.91	ND	ND
76-14-2	Freon 114	0.29	1.44	ND	2.01	10.03	ND	ND
75-01-4	Vinyl chloride	0.29	1.44	ND	0.73	3.67	ND	ND
106-99-0	1,3-Butadiene	0.30	1.48	ND	0.65	3.27	ND	ND
74-83-9	Bromomethane	0.29	1.44	ND	1.11	5.57	ND	ND
75-00-3	Chloroethane	0.29	1.44	ND	0.76	3.78	ND	ND
64-17-5	Ethanol	0.95	4.75	ND	1.79	8.95	ND	ND
75-69-4	Trichlorofluoromethane	0.29	1.44	0.39	1.61	8.06	2.17	J
67-64-1	Acetone	0.62	1.56	85.91	1.48	3.71	204.05	B
67-63-0	2-propanol	0.72	3.62	66.86	1.78	8.88	164.28	
75-65-0	t-Butanol	0.21	1.04	4.53	0.63	3.15	13.71	
4227-95-6	Methyl iodide	0.08	0.41	ND	0.48	2.42	ND	ND
75-35-4	1,1-Dichloroethene	0.56	2.79	0.58	2.21	11.04	2.29	J
107-13-1	Acrylonitrile	0.32	1.60	ND	0.69	3.47	ND	ND
76-13-1	Freon 113	0.28	1.41	ND	2.16	10.78	ND	ND
107-05-1	Allyl chloride	0.24	1.22	ND	0.76	3.82	ND	ND
75-09-2	Dichloromethane	0.29	1.44	1.25	1.00	4.98	4.36	J
75-15-0	Carbon disulfide	0.24	1.65	ND	0.73	5.14	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.18	1.28	ND	0.73	5.08	ND	ND
1634-04-4	Methyl tert butyl ether	0.19	0.94	ND	0.67	3.38	ND	ND
107-12-0	Propionitrile	0.26	1.31	ND	0.59	2.95	ND	ND
75-34-3	1,1-Dichloroethane	0.28	1.39	ND	1.13	5.64	ND	ND
108-05-4	Vinyl acetate	0.22	1.12	ND	0.79	3.93	ND	ND
78-93-3	2-Butanone	0.26	1.29	3.30	0.76	3.82	9.72	
108-20-3	Diisopropyl ether	0.17	0.87	ND	0.72	3.62	ND	ND
110-54-3	Hexane	0.19	0.94	4.45	0.66	3.31	15.67	
126-98-7	Methacrylonitrile	0.26	1.31	ND	0.72	3.60	ND	ND
141-78-6	Ethyl acetate	0.22	1.11	9.19	0.80	4.01	33.11	
74-97-5	Bromochloromethane	0.14	0.68	ND	0.72	3.58	ND	ND
109-99-9	Tetrahydrofuran	0.32	1.59	0.32	0.94	4.68	0.94	J
78-83-1	Isobutyl alcohol	0.42	2.10	ND	1.27	6.35	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.28	1.42	ND	1.13	5.63	ND	ND
594-20-7	2,2-Dichloropropane	0.23	1.13	ND	1.04	5.23	ND	ND
67-66-3	Chloroform	0.28	1.41	ND	1.37	6.87	ND	ND
71-55-6	1,1,1-Trichloroethane	0.28	1.41	ND	1.54	7.68	ND	ND
107-06-2	1,2-Dichloroethane	0.28	1.42	ND	1.15	5.75	ND	ND

563-58-6	1,1-Dichloropropene	0.17	0.84	ND	0.76	3.79	ND	ND
110-82-7	Cyclohexane	0.19	0.97	0.69	0.67	3.35	2.37	J
71-43-2	Benzene	0.57	1.42	0.80	1.82	4.54	2.57	J
56-23-5	Carbon tetrachloride	0.28	1.41	ND	1.77	8.85	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.14	0.69	0.30	0.65	3.23	1.39	J
142-82-5	n-Heptane	0.15	0.77	3.87	0.63	3.15	15.84	
78-87-5	1,2-Dichloropropane	0.28	1.42	ND	1.31	6.57	ND	ND
123-91-1	1,4 Dioxane	0.52	5.19	5.70	1.87	18.69	20.54	
74-95-3	Dibromomethane	0.10	0.48	ND	0.68	3.39	ND	ND
79-01-6	Trichloroethene	0.28	1.42	ND	1.53	7.64	ND	ND
75-27-4	Bromodichloromethane	0.10	0.51	ND	0.68	3.42	ND	ND
80-62-6	Methyl methacrylate	0.17	0.86	ND	0.70	3.51	ND	ND
108-10-1	4-Methyl-2-pentanone	0.19	0.96	0.24	0.79	3.93	0.99	J
10061-01-5	cis-1,3-Dichloropropene	0.29	1.46	ND	1.33	6.64	ND	ND
108-88-3	Toluene	0.57	1.42	10.04	2.14	5.35	37.79	
10061-02-6	trans-1,3-Dichloropropene	0.29	1.44	ND	1.30	6.51	ND	ND
79-00-5	1,1,2-Trichloroethane	0.28	1.41	ND	1.54	7.68	ND	ND
97-63-2	Ethyl methacrylate	0.15	0.76	ND	0.71	3.54	ND	ND
591-78-6	2-Hexanone	0.18	0.90	0.30	0.74	3.70	1.23	J
142-28-9	1,3-Dichloropropane	0.17	0.84	ND	0.77	3.86	ND	ND
111-65-9	Octane	0.14	0.69	4.93	0.65	3.23	23.03	
124-48-1	Dibromochloromethane	0.10	0.51	ND	0.86	4.32	ND	ND
106-93-4	1,2-Dibromoethane	0.29	1.44	ND	2.20	11.02	ND	ND
127-18-4	Tetrachloroethene	0.28	1.41	ND	1.91	9.54	ND	ND
108-90-7	Chlorobenzene	0.28	1.41	ND	1.30	6.48	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.53	ND	0.72	3.62	ND	ND
100-41-4	Ethylbenzene	0.29	1.44	0.33	1.25	6.23	1.42	J
1330-20-7	m,p-Xylenes	0.57	2.84	1.19	2.47	12.34	5.16	J
111-84-2	Nonane	0.12	0.60	0.69	0.63	3.17	3.61	
100-42-5	Styrene	0.28	1.42	0.54	1.21	6.05	2.32	J
75-25-2	Bromoform	0.07	0.34	ND	0.70	3.54	ND	ND
95-47-6	o-Xylene	0.28	1.41	0.55	1.22	6.11	2.39	J
79-34-5	1,1,2,2-Tetrachloroethane	0.28	2.82	ND	1.93	19.31	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.63	ND	0.75	3.78	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.17	0.86	ND	0.87	4.37	ND	ND
95-49-8	2-Chlorotoluene	0.14	0.68	ND	0.70	3.50	ND	ND
106-43-4	4-Chlorotoluene	0.13	0.66	ND	0.69	3.43	ND	ND
103-65-1	n-Propylbenzene	0.19	0.95	ND	0.94	4.68	ND	ND
98-82-8	Isopropylbenzene	0.19	0.97	0.40	0.95	4.75	1.96	J
622-96-8	4-Ethyltoluene	0.16	0.78	0.17	0.77	3.85	0.84	J
108-67-8	1,3,5-Trimethylbenzene	0.29	1.46	ND	1.44	7.19	ND	ND
124-18-5	Decane	0.13	0.64	3.02	0.75	3.74	17.59	
98-06-6	tert-butyl benzene	0.17	0.84	ND	0.92	4.62	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	1.41	0.29	1.38	6.92	1.44	J
538-93-2	i-Butylbenzene	0.17	0.84	ND	0.92	4.62	ND	ND
135-98-8	sec-butylbenzene	0.18	0.90	ND	0.98	4.92	ND	ND
541-73-1	1,3-Dichlorobenzene	0.56	2.82	ND	3.38	16.92	ND	ND
99-87-6	Isopropyltoluene	0.18	0.45	ND	0.97	2.47	ND	ND
100-44-7	Benzyl chloride	0.32	1.62	ND	1.68	8.40	ND	ND
106-46-7	1,4-Dichlorobenzene	0.56	2.82	ND	3.38	16.92	ND	ND
104-51-8	n-Butylbenzene	0.17	0.45	ND	0.91	2.47	ND	ND
95-50-1	1,2-Dichlorobenzene	0.55	2.76	ND	3.32	16.59	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.37	1.85	ND	3.57	17.86	ND	ND
78-00-2	Tetraethyl lead	0.13	0.66	ND	1.75	8.76	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.14	2.84	ND	8.43	21.08	ND	ND

91-20-3	Naphthalene	0.24	0.61	ND	1.27	3.18	ND	ND
87-68-3	Hexachlorobutadiene	0.57	2.84	ND	6.06	30.31	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.90	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 20**

Description: 2372-2-4 **Date Sampled:** 11/04/11 **Time:** 15:51
Can/Tube#: 336 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 17:11
Air Volume: 500 ml **Can Dilution Factor:** 1.26

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.26	1.32	0.67	1.31	6.54	3.30	J
74-87-3	Chloromethane	0.26	1.29	0.91	0.53	2.65	1.88	J
76-14-2	Freon 114	0.26	1.31	ND	1.83	9.15	ND	ND
75-01-4	Vinyl chloride	0.26	1.31	ND	0.67	3.35	ND	ND
106-99-0	1,3-Butadiene	0.27	1.35	0.28	0.60	2.98	0.61	J
74-83-9	Bromomethane	0.26	1.31	ND	1.02	5.08	ND	ND
75-00-3	Chloroethane	0.26	1.31	ND	0.69	3.46	ND	ND
64-17-5	Ethanol	0.87	4.33	2.35	1.63	8.17	4.43	J
75-69-4	Trichlorofluoromethane	0.26	1.31	0.54	1.47	7.36	3.02	J
67-64-1	Acetone	0.57	1.43	37.53	1.36	3.39	89.13	B
67-63-0	2-propanol	0.66	3.30	ND	1.62	8.11	ND	ND
75-65-0	t-Butanol	0.19	0.95	0.58	0.57	2.88	1.77	J
4227-95-6	Methyl iodide	0.08	0.38	ND	0.44	2.21	ND	ND
75-35-4	1,1-Dichloroethene	0.51	2.55	ND	2.02	10.08	ND	ND
107-13-1	Acrylonitrile	0.29	1.46	ND	0.63	3.17	ND	ND
76-13-1	Freon 113	0.26	1.29	ND	1.97	9.85	ND	ND
107-05-1	Allyl chloride	0.22	1.12	ND	0.70	3.49	ND	ND
75-09-2	Dichloromethane	0.26	1.31	1.34	0.91	4.55	4.66	
75-15-0	Carbon disulfide	0.22	1.51	0.59	0.67	4.70	1.83	J
156-60-5	trans-1,2-Dichloroethene	0.17	1.17	ND	0.66	4.64	ND	ND
1634-04-4	Methyl tert butyl ether	0.17	0.86	ND	0.62	3.09	ND	ND
107-12-0	Propionitrile	0.24	1.20	ND	0.54	2.70	ND	ND
75-34-3	1,1-Dichloroethane	0.25	1.27	ND	1.03	5.15	ND	ND
108-05-4	Vinyl acetate	0.20	1.02	0.34	0.72	3.59	1.20	J
78-93-3	2-Butanone	0.24	1.18	2.15	0.70	3.48	6.35	
108-20-3	Diisopropyl ether	0.16	0.79	ND	0.66	3.31	ND	ND
110-54-3	Hexane	0.17	0.86	3.85	0.60	3.02	13.55	
126-98-7	Methacrylonitrile	0.24	1.20	ND	0.66	3.28	ND	ND
141-78-6	Ethyl acetate	0.20	1.02	7.22	0.73	3.66	26.01	
74-97-5	Bromochloromethane	0.12	0.62	ND	0.65	3.27	ND	ND
109-99-9	Tetrahydrofuran	0.29	1.45	0.53	0.85	4.27	1.57	J
78-83-1	Isobutyl alcohol	0.38	1.92	ND	1.16	5.80	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.26	1.30	ND	1.03	5.14	ND	ND
594-20-7	2,2-Dichloropropane	0.21	1.03	ND	0.95	4.77	ND	ND
67-66-3	Chloroform	0.26	1.29	ND	1.25	6.27	ND	ND
71-55-6	1,1,1-Trichloroethane	0.26	1.29	ND	1.40	7.01	ND	ND
107-06-2	1,2-Dichloroethane	0.26	1.30	ND	1.05	5.25	ND	ND

563-58-6	1,1-Dichloropropene	0.15	0.76	ND	0.69	3.46	ND	ND
110-82-7	Cyclohexane	0.18	0.89	1.05	0.61	3.06	3.63	
71-43-2	Benzene	0.52	1.30	1.40	1.66	4.14	4.48	
56-23-5	Carbon tetrachloride	0.26	1.29	ND	1.62	8.08	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.13	0.63	0.18	0.59	2.95	0.84	J
142-82-5	n-Heptane	0.14	0.70	1.03	0.58	2.88	4.21	
78-87-5	1,2-Dichloropropane	0.26	1.30	ND	1.20	6.00	ND	ND
123-91-1	1,4 Dioxane	0.47	4.74	ND	1.71	17.06	ND	ND
74-95-3	Dibromomethane	0.09	0.44	ND	0.62	3.10	ND	ND
79-01-6	Trichloroethene	0.26	1.30	ND	1.39	6.97	ND	ND
75-27-4	Bromodichloromethane	0.09	0.47	ND	0.62	3.12	ND	ND
80-62-6	Methyl methacrylate	0.16	0.78	ND	0.64	3.21	ND	ND
108-10-1	4-Methyl-2-pentanone	0.18	0.88	0.30	0.72	3.59	1.23	J
10061-01-5	cis-1,3-Dichloropropene	0.27	1.34	ND	1.21	6.06	ND	ND
108-88-3	Toluene	0.52	1.30	12.43	1.95	4.89	46.80	
10061-02-6	trans-1,3-Dichloropropene	0.26	1.31	ND	1.19	5.95	ND	ND
79-00-5	1,1,2-Trichloroethane	0.26	1.29	1.00	1.40	7.01	5.46	J
97-63-2	Ethyl methacrylate	0.14	0.69	ND	0.65	3.24	ND	ND
591-78-6	2-Hexanone	0.16	0.82	0.17	0.67	3.38	0.69	J
142-28-9	1,3-Dichloropropane	0.15	0.76	ND	0.70	3.53	ND	ND
111-65-9	Octane	0.13	0.63	1.33	0.59	2.95	6.19	
124-48-1	Dibromochloromethane	0.09	0.46	ND	0.79	3.95	ND	ND
106-93-4	1,2-Dibromoethane	0.26	1.31	ND	2.01	10.07	ND	ND
127-18-4	Tetrachloroethene	0.26	1.29	ND	1.74	8.71	ND	ND
108-90-7	Chlorobenzene	0.26	1.29	ND	1.18	5.92	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.48	ND	0.66	3.30	ND	ND
100-41-4	Ethylbenzene	0.26	1.31	0.70	1.14	5.69	3.04	J
1330-20-7	m,p-Xylenes	0.52	2.60	3.72	2.25	11.27	16.14	
111-84-2	Nonane	0.11	0.55	0.51	0.58	2.89	2.69	J
100-42-5	Styrene	0.26	1.30	0.46	1.11	5.53	1.94	J
75-25-2	Bromoform	0.06	0.31	ND	0.64	3.23	ND	ND
95-47-6	o-Xylene	0.26	1.29	1.46	1.12	5.58	6.32	
79-34-5	1,1,2,2-Tetrachloroethane	0.26	2.57	ND	1.76	17.63	ND	ND
96-18-4	1,2,3-Trichloropropane	0.11	0.57	ND	0.69	3.45	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.16	0.78	ND	0.80	3.99	ND	ND
95-49-8	2-Chlorotoluene	0.12	0.62	ND	0.64	3.20	ND	ND
106-43-4	4-Chlorotoluene	0.12	0.60	0.25	0.63	3.13	1.30	J
103-65-1	n-Propylbenzene	0.17	0.87	0.29	0.85	4.27	1.44	J
98-82-8	Isopropylbenzene	0.18	0.88	2.17	0.87	4.33	10.67	
622-96-8	4-Ethyltoluene	0.14	0.72	0.94	0.70	3.52	4.61	
108-67-8	1,3,5-Trimethylbenzene	0.27	1.34	0.85	1.31	6.56	4.19	J
124-18-5	Decane	0.12	0.59	2.18	0.68	3.42	12.65	
98-06-6	tert-butyl benzene	0.15	0.77	ND	0.84	4.22	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	1.29	2.37	1.26	6.32	11.66	
538-93-2	i-Butylbenzene	0.15	0.77	ND	0.84	4.22	ND	ND
135-98-8	sec-butylbenzene	0.16	0.82	ND	0.90	4.49	ND	ND
541-73-1	1,3-Dichlorobenzene	0.51	2.57	ND	3.09	15.45	ND	ND
99-87-6	Isopropyltoluene	0.16	0.41	ND	0.88	2.25	ND	ND
100-44-7	Benzyl chloride	0.30	1.48	ND	1.53	7.67	ND	ND
106-46-7	1,4-Dichlorobenzene	0.51	2.57	ND	3.09	15.45	ND	ND
104-51-8	n-Butylbenzene	0.15	0.41	0.40	0.83	2.25	2.21	J
95-50-1	1,2-Dichlorobenzene	0.50	2.52	ND	3.03	15.14	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.34	1.69	ND	3.26	16.31	ND	ND
78-00-2	Tetraethyl lead	0.12	0.60	ND	1.60	8.00	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.04	2.60	ND	7.70	19.25	ND	ND

91-20-3	Naphthalene	0.22	0.55	1.35	1.16	2.91	7.09	
87-68-3	Hexachlorobutadiene	0.52	2.60	ND	5.53	27.67	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.88	109	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 21**

Description: 2372-2-5 **Date Sampled:** 11/04/11 **Time:** 14:50
Can/Tube#: 323A **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 17:49
Air Volume: 500 ml **Can Dilution Factor:** 1.36

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.29	1.43	ND	1.41	7.06	ND	ND
74-87-3	Chloromethane	0.28	1.39	0.41	0.57	2.86	0.84	J
76-14-2	Freon 114	0.28	1.41	ND	1.98	9.88	ND	ND
75-01-4	Vinyl chloride	0.28	1.41	ND	0.72	3.61	ND	ND
106-99-0	1,3-Butadiene	0.29	1.46	ND	0.64	3.22	ND	ND
74-83-9	Bromomethane	0.28	1.41	ND	1.10	5.49	ND	ND
75-00-3	Chloroethane	0.28	1.41	ND	0.75	3.73	ND	ND
64-17-5	Ethanol	0.94	4.68	ND	1.76	8.82	ND	ND
75-69-4	Trichlorofluoromethane	0.28	1.41	0.44	1.59	7.94	2.46	J
67-64-1	Acetone	0.62	1.54	123.67	1.46	3.66	293.73	B
67-63-0	2-propanol	0.71	3.56	5.68	1.75	8.75	13.96	
75-65-0	t-Butanol	0.20	1.03	1.47	0.62	3.11	4.46	
4227-95-6	Methyl iodide	0.08	0.41	ND	0.48	2.38	ND	ND
75-35-4	1,1-Dichloroethene	0.55	2.75	ND	2.18	10.88	ND	ND
107-13-1	Acrylonitrile	0.32	1.58	ND	0.68	3.42	ND	ND
76-13-1	Freon 113	0.28	1.39	ND	2.13	10.63	ND	ND
107-05-1	Allyl chloride	0.24	1.20	ND	0.75	3.77	ND	ND
75-09-2	Dichloromethane	0.28	1.41	3.90	0.98	4.91	13.55	
75-15-0	Carbon disulfide	0.23	1.63	1.03	0.72	5.07	3.22	J
156-60-5	trans-1,2-Dichloroethene	0.18	1.26	ND	0.72	5.01	ND	ND
1634-04-4	Methyl tert butyl ether	0.18	0.92	ND	0.67	3.33	ND	ND
107-12-0	Propionitrile	0.26	1.29	ND	0.58	2.91	ND	ND
75-34-3	1,1-Dichloroethane	0.27	1.37	ND	1.11	5.56	ND	ND
108-05-4	Vinyl acetate	0.22	1.10	ND	0.77	3.88	ND	ND
78-93-3	2-Butanone	0.25	1.28	19.81	0.75	3.76	58.40	
108-20-3	Diisopropyl ether	0.17	0.85	ND	0.71	3.57	ND	ND
110-54-3	Hexane	0.18	0.92	3.75	0.65	3.26	13.20	
126-98-7	Methacrylonitrile	0.26	1.29	ND	0.71	3.54	ND	ND
141-78-6	Ethyl acetate	0.22	1.10	7.72	0.79	3.95	27.79	
74-97-5	Bromochloromethane	0.13	0.67	ND	0.71	3.53	ND	ND
109-99-9	Tetrahydrofuran	0.31	1.56	2.94	0.92	4.61	8.66	
78-83-1	Isobutyl alcohol	0.41	2.07	ND	1.25	6.26	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.28	1.40	ND	1.11	5.55	ND	ND
594-20-7	2,2-Dichloropropane	0.22	1.12	ND	1.03	5.15	ND	ND
67-66-3	Chloroform	0.28	1.39	ND	1.35	6.77	ND	ND
71-55-6	1,1,1-Trichloroethane	0.28	1.39	ND	1.51	7.56	ND	ND
107-06-2	1,2-Dichloroethane	0.28	1.40	ND	1.13	5.67	ND	ND

563-58-6	1,1-Dichloropropene	0.16	0.82	ND	0.75	3.74	ND	ND
110-82-7	Cyclohexane	0.19	0.96	0.83	0.66	3.30	2.85	J
71-43-2	Benzene	0.56	1.40	1.36	1.79	4.47	4.33	J
56-23-5	Carbon tetrachloride	0.28	1.39	ND	1.74	8.72	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.14	0.68	0.24	0.64	3.19	1.13	J
142-82-5	n-Heptane	0.15	0.76	1.14	0.62	3.11	4.67	
78-87-5	1,2-Dichloropropane	0.28	1.40	ND	1.29	6.47	ND	ND
123-91-1	1,4 Dioxane	0.51	5.11	3.65	1.84	18.42	13.15	J
74-95-3	Dibromomethane	0.09	0.47	ND	0.67	3.34	ND	ND
79-01-6	Trichloroethene	0.28	1.40	ND	1.50	7.52	ND	ND
75-27-4	Bromodichloromethane	0.10	0.50	ND	0.67	3.37	ND	ND
80-62-6	Methyl methacrylate	0.17	0.85	0.23	0.69	3.46	0.93	J
108-10-1	4-Methyl-2-pentanone	0.19	0.95	0.66	0.78	3.88	2.68	J
10061-01-5	cis-1,3-Dichloropropene	0.29	1.44	ND	1.31	6.54	ND	ND
108-88-3	Toluene	0.56	1.40	11.04	2.11	5.27	41.58	
10061-02-6	trans-1,3-Dichloropropene	0.28	1.41	ND	1.28	6.42	ND	ND
79-00-5	1,1,2-Trichloroethane	0.28	1.39	0.92	1.51	7.56	5.02	J
97-63-2	Ethyl methacrylate	0.15	0.75	ND	0.70	3.49	ND	ND
591-78-6	2-Hexanone	0.18	0.89	0.18	0.73	3.64	0.74	J
142-28-9	1,3-Dichloropropane	0.16	0.82	ND	0.76	3.81	ND	ND
111-65-9	Octane	0.14	0.68	1.92	0.64	3.19	8.96	
124-48-1	Dibromochloromethane	0.10	0.50	ND	0.85	4.26	ND	ND
106-93-4	1,2-Dibromoethane	0.28	1.41	ND	2.17	10.86	ND	ND
127-18-4	Tetrachloroethene	0.28	1.39	ND	1.88	9.40	ND	ND
108-90-7	Chlorobenzene	0.28	1.39	ND	1.28	6.39	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.52	ND	0.71	3.56	ND	ND
100-41-4	Ethylbenzene	0.28	1.41	0.91	1.23	6.14	3.95	J
1330-20-7	m,p-Xylenes	0.56	2.80	2.15	2.43	12.16	9.34	J
111-84-2	Nonane	0.12	0.60	0.56	0.62	3.12	2.95	J
100-42-5	Styrene	0.28	1.40	0.54	1.19	5.97	2.30	J
75-25-2	Bromoform	0.07	0.34	ND	0.69	3.48	ND	ND
95-47-6	o-Xylene	0.28	1.39	0.78	1.20	6.02	3.38	J
79-34-5	1,1,2,2-Tetrachloroethane	0.28	2.77	ND	1.90	19.03	ND	ND
96-18-4	1,2,3-Trichloropropane	0.12	0.62	ND	0.74	3.72	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.17	0.84	ND	0.86	4.31	ND	ND
95-49-8	2-Chlorotoluene	0.13	0.67	ND	0.69	3.45	ND	ND
106-43-4	4-Chlorotoluene	0.13	0.65	ND	0.68	3.38	ND	ND
103-65-1	n-Propylbenzene	0.19	0.94	ND	0.92	4.61	ND	ND
98-82-8	Isopropylbenzene	0.19	0.95	0.26	0.94	4.68	1.27	J
622-96-8	4-Ethyltoluene	0.15	0.77	0.17	0.76	3.80	0.81	J
108-67-8	1,3,5-Trimethylbenzene	0.29	1.44	ND	1.42	7.08	ND	ND
124-18-5	Decane	0.13	0.63	1.69	0.74	3.69	9.84	
98-06-6	tert-butyl benzene	0.17	0.83	ND	0.91	4.55	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.28	1.39	0.28	1.36	6.82	1.37	J
538-93-2	i-Butylbenzene	0.17	0.83	ND	0.91	4.55	ND	ND
135-98-8	sec-butylbenzene	0.18	0.88	ND	0.97	4.85	ND	ND
541-73-1	1,3-Dichlorobenzene	0.55	2.77	ND	3.33	16.67	ND	ND
99-87-6	Isopropyltoluene	0.17	0.44	1.92	0.96	2.43	10.53	
100-44-7	Benzyl chloride	0.32	1.60	ND	1.66	8.28	ND	ND
106-46-7	1,4-Dichlorobenzene	0.55	2.77	ND	3.33	16.67	ND	ND
104-51-8	n-Butylbenzene	0.16	0.44	ND	0.90	2.43	ND	ND
95-50-1	1,2-Dichlorobenzene	0.54	2.72	ND	3.27	16.35	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.36	1.82	ND	3.52	17.60	ND	ND
78-00-2	Tetraethyl lead	0.13	0.65	ND	1.73	8.63	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.12	2.80	ND	8.31	20.78	ND	ND

91-20-3	Naphthalene	0.24	0.60	ND	1.25	3.14	ND	ND
87-68-3	Hexachlorobutadiene	0.56	2.80	ND	5.97	29.87	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.93	99	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 22**

Description: 2372-2-6 **Date Sampled:** 11/04/11 **Time:** 14:28
Can/Tube#: 318 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 18:28
Air Volume: 500 ml **Can Dilution Factor:** 1.49

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.31	1.56	0.49	1.55	7.73	2.40	J
74-87-3	Chloromethane	0.30	1.52	8.10	0.63	3.14	16.72	
76-14-2	Freon 114	0.31	1.55	ND	2.17	10.83	ND	ND
75-01-4	Vinyl chloride	0.31	1.55	ND	0.79	3.96	ND	ND
106-99-0	1,3-Butadiene	0.32	1.59	ND	0.71	3.53	ND	ND
74-83-9	Bromomethane	0.31	1.55	ND	1.20	6.01	ND	ND
75-00-3	Chloroethane	0.31	1.55	0.33	0.82	4.09	0.88	J
64-17-5	Ethanol	1.03	5.13	ND	1.93	9.66	ND	ND
75-69-4	Trichlorofluoromethane	0.31	1.55	0.44	1.74	8.70	2.49	J
67-64-1	Acetone	0.67	1.69	47.13	1.60	4.01	111.94	B
67-63-0	2-propanol	0.78	3.90	4.38	1.92	9.59	10.77	
75-65-0	t-Butanol	0.22	1.12	ND	0.68	3.40	ND	ND
4227-95-6	Methyl iodide	0.09	0.45	0.11	0.52	2.61	0.66	J
75-35-4	1,1-Dichloroethene	0.60	3.01	ND	2.38	11.92	ND	ND
107-13-1	Acrylonitrile	0.35	1.73	ND	0.75	3.75	ND	ND
76-13-1	Freon 113	0.30	1.52	ND	2.33	11.64	ND	ND
107-05-1	Allyl chloride	0.26	1.32	ND	0.82	4.13	ND	ND
75-09-2	Dichloromethane	0.31	1.55	1.33	1.08	5.38	4.63	J
75-15-0	Carbon disulfide	0.25	1.79	ND	0.79	5.55	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.20	1.39	ND	0.78	5.49	ND	ND
1634-04-4	Methyl tert butyl ether	0.20	1.01	ND	0.73	3.65	ND	ND
107-12-0	Propionitrile	0.28	1.42	ND	0.64	3.19	ND	ND
75-34-3	1,1-Dichloroethane	0.30	1.50	ND	1.22	6.09	ND	ND
108-05-4	Vinyl acetate	0.24	1.21	ND	0.85	4.25	ND	ND
78-93-3	2-Butanone	0.28	1.40	2.39	0.82	4.12	7.04	
108-20-3	Diisopropyl ether	0.19	0.94	ND	0.78	3.91	ND	ND
110-54-3	Hexane	0.20	1.01	3.66	0.71	3.57	12.89	
126-98-7	Methacrylonitrile	0.28	1.42	ND	0.78	3.88	ND	ND
141-78-6	Ethyl acetate	0.24	1.20	0.83	0.87	4.33	3.00	J
74-97-5	Bromochloromethane	0.15	0.73	0.34	0.77	3.86	1.82	J
109-99-9	Tetrahydrofuran	0.34	1.71	1.40	1.01	5.05	4.13	J
78-83-1	Isobutyl alcohol	0.45	2.26	ND	1.37	6.86	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.31	1.53	ND	1.22	6.08	ND	ND
594-20-7	2,2-Dichloropropane	0.24	1.22	ND	1.13	5.64	ND	ND
67-66-3	Chloroform	0.30	1.52	2.70	1.48	7.42	13.16	
71-55-6	1,1,1-Trichloroethane	0.30	1.52	ND	1.66	8.29	ND	ND
107-06-2	1,2-Dichloroethane	0.31	1.53	0.41	1.24	6.21	1.67	J

563-58-6	1,1-Dichloropropene	0.18	0.90	ND	0.82	4.10	ND	ND
110-82-7	Cyclohexane	0.21	1.05	0.50	0.72	3.62	1.70	J
71-43-2	Benzene	0.61	1.53	0.74	1.96	4.90	2.37	J
56-23-5	Carbon tetrachloride	0.30	1.52	ND	1.91	9.56	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.15	0.75	ND	0.70	3.49	ND	ND
142-82-5	n-Heptane	0.17	0.83	0.80	0.68	3.41	3.27	J
78-87-5	1,2-Dichloropropane	0.31	1.53	ND	1.42	7.09	ND	ND
123-91-1	1,4 Dioxane	0.56	5.60	ND	2.02	20.18	ND	ND
74-95-3	Dibromomethane	0.10	0.52	ND	0.73	3.66	ND	ND
79-01-6	Trichloroethene	0.31	1.53	ND	1.65	8.24	ND	ND
75-27-4	Bromodichloromethane	0.11	0.55	0.33	0.74	3.69	2.19	J
80-62-6	Methyl methacrylate	0.19	0.93	ND	0.76	3.79	ND	ND
108-10-1	4-Methyl-2-pentanone	0.21	1.04	ND	0.85	4.25	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.32	1.58	ND	1.43	7.17	ND	ND
108-88-3	Toluene	0.61	1.53	5.76	2.31	5.78	21.68	
10061-02-6	trans-1,3-Dichloropropene	0.31	1.55	ND	1.41	7.03	ND	ND
79-00-5	1,1,2-Trichloroethane	0.30	1.52	0.48	1.66	8.29	2.61	J
97-63-2	Ethyl methacrylate	0.16	0.82	ND	0.76	3.83	ND	ND
591-78-6	2-Hexanone	0.19	0.97	ND	0.80	3.99	ND	ND
142-28-9	1,3-Dichloropropane	0.18	0.90	ND	0.83	4.17	ND	ND
111-65-9	Octane	0.15	0.75	1.47	0.70	3.49	6.85	
124-48-1	Dibromochloromethane	0.11	0.55	0.23	0.93	4.67	1.97	J
106-93-4	1,2-Dibromoethane	0.31	1.55	ND	2.38	11.90	ND	ND
127-18-4	Tetrachloroethene	0.30	1.52	ND	2.06	10.30	ND	ND
108-90-7	Chlorobenzene	0.30	1.52	ND	1.40	7.00	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.57	ND	0.78	3.90	ND	ND
100-41-4	Ethylbenzene	0.31	1.55	ND	1.35	6.73	ND	ND
1330-20-7	m,p-Xylenes	0.61	3.07	0.64	2.67	13.33	2.76	J
111-84-2	Nonane	0.13	0.65	0.22	0.68	3.42	1.14	J
100-42-5	Styrene	0.31	1.53	ND	1.31	6.54	ND	ND
75-25-2	Bromoform	0.07	0.37	0.31	0.76	3.82	3.25	J
95-47-6	o-Xylene	0.30	1.52	ND	1.32	6.60	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.30	3.04	ND	2.09	20.85	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.68	ND	0.81	4.08	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.18	0.92	ND	0.94	4.72	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.73	ND	0.76	3.78	ND	ND
106-43-4	4-Chlorotoluene	0.14	0.72	ND	0.74	3.70	ND	ND
103-65-1	n-Propylbenzene	0.21	1.03	ND	1.01	5.05	ND	ND
98-82-8	Isopropylbenzene	0.21	1.04	ND	1.02	5.12	ND	ND
622-96-8	4-Ethyltoluene	0.17	0.85	ND	0.83	4.16	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.32	1.58	ND	1.55	7.76	ND	ND
124-18-5	Decane	0.14	0.69	1.99	0.81	4.04	11.56	
98-06-6	tert-butyl benzene	0.18	0.91	ND	1.00	4.99	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.30	1.52	ND	1.49	7.47	ND	ND
538-93-2	i-Butylbenzene	0.18	0.91	ND	1.00	4.99	ND	ND
135-98-8	sec-butylbenzene	0.19	0.97	ND	1.06	5.31	ND	ND
541-73-1	1,3-Dichlorobenzene	0.61	3.04	ND	3.65	18.27	ND	ND
99-87-6	Isopropyltoluene	0.19	0.49	ND	1.05	2.66	ND	ND
100-44-7	Benzyl chloride	0.35	1.75	ND	1.81	9.07	ND	ND
106-46-7	1,4-Dichlorobenzene	0.61	3.04	ND	3.65	18.27	ND	ND
104-51-8	n-Butylbenzene	0.18	0.49	ND	0.98	2.66	ND	ND
95-50-1	1,2-Dichlorobenzene	0.60	2.98	ND	3.58	17.91	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.40	2.00	ND	3.86	19.29	ND	ND
78-00-2	Tetraethyl lead	0.14	0.72	ND	1.89	9.46	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.23	3.07	ND	9.10	22.76	ND	ND

91-20-3	Naphthalene	0.26	0.66	ND	1.37	3.44	ND	ND
87-68-3	Hexachlorobutadiene	0.61	3.07	ND	6.54	32.72	ND	ND

		Spike	Measured		QC	Limits	Flag
	Surrogate Recovery	ppbV	ppbV	% Rec.	LCL	UCL	* = Out
2037-26-5	Toluene-d8	10.00	10.37	104	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 23**

Description: 2372-2-7 **Date Sampled:** 11/04/11 **Time:** 14:29
Can/Tube#: 323 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 19:04
Air Volume: 500 ml **Can Dilution Factor:** 1.00

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.21	1.05	ND	1.04	5.19	ND	ND
74-87-3	Chloromethane	0.20	1.02	ND	0.42	2.11	ND	ND
76-14-2	Freon 114	0.21	1.04	ND	1.45	7.27	ND	ND
75-01-4	Vinyl chloride	0.21	1.04	ND	0.53	2.66	ND	ND
106-99-0	1,3-Butadiene	0.21	1.07	ND	0.47	2.37	ND	ND
74-83-9	Bromomethane	0.21	1.04	ND	0.81	4.03	ND	ND
75-00-3	Chloroethane	0.21	1.04	ND	0.55	2.74	ND	ND
64-17-5	Ethanol	0.69	3.44	ND	1.30	6.48	ND	ND
75-69-4	Trichlorofluoromethane	0.21	1.04	ND	1.17	5.84	ND	ND
67-64-1	Acetone	0.45	1.13	0.45	1.08	2.69	1.08	B
67-63-0	2-propanol	0.52	2.62	ND	1.29	6.44	ND	ND
75-65-0	t-Butanol	0.15	0.75	ND	0.46	2.28	ND	ND
4227-95-6	Methyl iodide	0.06	0.30	ND	0.35	1.75	ND	ND
75-35-4	1,1-Dichloroethene	0.40	2.02	ND	1.60	8.00	ND	ND
107-13-1	Acrylonitrile	0.23	1.16	ND	0.50	2.52	ND	ND
76-13-1	Freon 113	0.20	1.02	ND	1.56	7.81	ND	ND
107-05-1	Allyl chloride	0.18	0.89	ND	0.55	2.77	ND	ND
75-09-2	Dichloromethane	0.21	1.04	ND	0.72	3.61	ND	ND
75-15-0	Carbon disulfide	0.17	1.20	ND	0.53	3.73	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.13	0.93	ND	0.53	3.68	ND	ND
1634-04-4	Methyl tert butyl ether	0.14	0.68	ND	0.49	2.45	ND	ND
107-12-0	Propionitrile	0.19	0.95	ND	0.43	2.14	ND	ND
75-34-3	1,1-Dichloroethane	0.20	1.01	ND	0.82	4.09	ND	ND
108-05-4	Vinyl acetate	0.16	0.81	ND	0.57	2.85	ND	ND
78-93-3	2-Butanone	0.19	0.94	ND	0.55	2.76	ND	ND
108-20-3	Diisopropyl ether	0.13	0.63	ND	0.52	2.62	ND	ND
110-54-3	Hexane	0.14	0.68	0.22	0.48	2.40	0.76	J
126-98-7	Methacrylonitrile	0.19	0.95	ND	0.52	2.61	ND	ND
141-78-6	Ethyl acetate	0.16	0.81	ND	0.58	2.90	ND	ND
74-97-5	Bromochloromethane	0.10	0.49	ND	0.52	2.59	ND	ND
109-99-9	Tetrahydrofuran	0.23	1.15	ND	0.68	3.39	ND	ND
78-83-1	Isobutyl alcohol	0.30	1.52	ND	0.92	4.60	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.21	1.03	ND	0.82	4.08	ND	ND
594-20-7	2,2-Dichloropropane	0.16	0.82	ND	0.76	3.79	ND	ND
67-66-3	Chloroform	0.20	1.02	ND	1.00	4.98	ND	ND
71-55-6	1,1,1-Trichloroethane	0.20	1.02	ND	1.11	5.56	ND	ND
107-06-2	1,2-Dichloroethane	0.21	1.03	ND	0.83	4.17	ND	ND

563-58-6	1,1-Dichloropropene	0.12	0.61	ND	0.55	2.75	ND	ND
110-82-7	Cyclohexane	0.14	0.71	0.15	0.49	2.43	0.50	J
71-43-2	Benzene	0.41	1.03	0.46	1.32	3.29	1.47	J
56-23-5	Carbon tetrachloride	0.20	1.02	ND	1.28	6.41	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.10	0.50	ND	0.47	2.34	ND	ND
142-82-5	n-Heptane	0.11	0.56	0.37	0.46	2.29	1.52	J
78-87-5	1,2-Dichloropropane	0.21	1.03	ND	0.95	4.76	ND	ND
123-91-1	1,4 Dioxane	0.38	3.76	ND	1.35	13.54	ND	ND
74-95-3	Dibromomethane	0.07	0.35	ND	0.49	2.46	ND	ND
79-01-6	Trichloroethene	0.21	1.03	ND	1.11	5.53	ND	ND
75-27-4	Bromodichloromethane	0.07	0.37	ND	0.50	2.48	ND	ND
80-62-6	Methyl methacrylate	0.12	0.62	ND	0.51	2.55	ND	ND
108-10-1	4-Methyl-2-pentanone	0.14	0.70	ND	0.57	2.85	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	ND
108-88-3	Toluene	0.41	1.03	3.20	1.55	3.88	12.05	
10061-02-6	trans-1,3-Dichloropropene	0.21	1.04	ND	0.94	4.72	ND	ND
79-00-5	1,1,2-Trichloroethane	0.20	1.02	0.31	1.11	5.56	1.66	J
97-63-2	Ethyl methacrylate	0.11	0.55	ND	0.51	2.57	ND	ND
591-78-6	2-Hexanone	0.13	0.65	ND	0.53	2.68	ND	ND
142-28-9	1,3-Dichloropropane	0.12	0.61	ND	0.56	2.80	ND	ND
111-65-9	Octane	0.10	0.50	0.28	0.47	2.34	1.30	J
124-48-1	Dibromochloromethane	0.07	0.37	ND	0.63	3.13	ND	ND
106-93-4	1,2-Dibromoethane	0.21	1.04	ND	1.60	7.99	ND	ND
127-18-4	Tetrachloroethene	0.20	1.02	ND	1.38	6.91	ND	ND
108-90-7	Chlorobenzene	0.20	1.02	ND	0.94	4.70	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.08	0.38	ND	0.52	2.62	ND	ND
100-41-4	Ethylbenzene	0.21	1.04	0.32	0.90	4.52	1.38	J
1330-20-7	m,p-Xylenes	0.41	2.06	2.09	1.79	8.94	9.08	
111-84-2	Nonane	0.09	0.44	0.14	0.46	2.30	0.72	J
100-42-5	Styrene	0.21	1.03	ND	0.88	4.39	ND	ND
75-25-2	Bromoform	0.05	0.25	ND	0.51	2.56	ND	ND
95-47-6	o-Xylene	0.20	1.02	0.60	0.89	4.43	2.60	J
79-34-5	1,1,2,2-Tetrachloroethane	0.20	2.04	ND	1.40	13.99	ND	ND
96-18-4	1,2,3-Trichloropropane	0.09	0.45	ND	0.55	2.74	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.12	0.62	ND	0.63	3.17	ND	ND
95-49-8	2-Chlorotoluene	0.10	0.49	ND	0.51	2.54	ND	ND
106-43-4	4-Chlorotoluene	0.10	0.48	ND	0.50	2.48	ND	ND
103-65-1	n-Propylbenzene	0.14	0.69	ND	0.68	3.39	ND	ND
98-82-8	Isopropylbenzene	0.14	0.70	0.40	0.69	3.44	1.98	J
622-96-8	4-Ethyltoluene	0.11	0.57	0.19	0.56	2.79	0.93	J
108-67-8	1,3,5-Trimethylbenzene	0.21	1.06	ND	1.04	5.21	ND	ND
124-18-5	Decane	0.09	0.47	ND	0.54	2.71	ND	ND
98-06-6	tert-butyl benzene	0.12	0.61	ND	0.67	3.35	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.20	1.02	0.47	1.00	5.01	2.29	J
538-93-2	i-Butylbenzene	0.12	0.61	ND	0.67	3.35	ND	ND
135-98-8	sec-butylbenzene	0.13	0.65	ND	0.71	3.57	ND	ND
541-73-1	1,3-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
99-87-6	Isopropyltoluene	0.13	0.33	ND	0.70	1.79	ND	ND
100-44-7	Benzyl chloride	0.24	1.18	ND	1.22	6.09	ND	ND
106-46-7	1,4-Dichlorobenzene	0.41	2.04	ND	2.45	12.26	ND	ND
104-51-8	n-Butylbenzene	0.12	0.33	ND	0.66	1.79	ND	ND
95-50-1	1,2-Dichlorobenzene	0.40	2.00	ND	2.40	12.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.27	1.34	ND	2.59	12.94	ND	ND
78-00-2	Tetraethyl lead	0.10	0.48	ND	1.27	6.35	ND	ND
120-82-1	1,2,4-Trichlorobenzene	0.82	2.06	ND	6.11	15.28	ND	ND

91-20-3	Naphthalene	0.18	0.44	ND	0.92	2.31	ND	ND
87-68-3	Hexachlorobutadiene	0.41	2.06	ND	4.39	21.96	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.52	95	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 24**

Description: 2372-2-8 **Date Sampled:** 11/04/11 **Time:** 14:52
Can/Tube#: 388 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 19:41
Air Volume: 500 ml **Can Dilution Factor:** 1.58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	1.66	0.62	1.64	8.20	3.08	J
74-87-3	Chloromethane	0.32	1.61	1.23	0.67	3.33	2.54	J
76-14-2	Freon 114	0.33	1.64	ND	2.30	11.48	ND	ND
75-01-4	Vinyl chloride	0.33	1.64	ND	0.84	4.20	ND	ND
106-99-0	1,3-Butadiene	0.34	1.69	ND	0.75	3.74	ND	ND
74-83-9	Bromomethane	0.33	1.64	ND	1.27	6.37	ND	ND
75-00-3	Chloroethane	0.33	1.64	ND	0.87	4.33	ND	ND
64-17-5	Ethanol	1.09	5.44	16.66	2.05	10.24	31.40	
75-69-4	Trichlorofluoromethane	0.33	1.64	0.59	1.85	9.23	3.33	J
67-64-1	Acetone	0.72	1.79	47.29	1.70	4.25	112.31	B
67-63-0	2-propanol	0.83	4.14	2.74	2.03	10.17	6.73	J
75-65-0	t-Butanol	0.24	1.19	1.31	0.72	3.61	3.98	
4227-95-6	Methyl iodide	0.09	0.47	ND	0.55	2.77	ND	ND
75-35-4	1,1-Dichloroethene	0.64	3.19	ND	2.53	12.64	ND	ND
107-13-1	Acrylonitrile	0.37	1.83	ND	0.80	3.98	ND	ND
76-13-1	Freon 113	0.32	1.61	ND	2.47	12.35	ND	ND
107-05-1	Allyl chloride	0.28	1.40	ND	0.87	4.38	ND	ND
75-09-2	Dichloromethane	0.33	1.64	ND	1.14	5.70	ND	ND
75-15-0	Carbon disulfide	0.27	1.89	0.73	0.84	5.89	2.26	J
156-60-5	trans-1,2-Dichloroethene	0.21	1.47	ND	0.83	5.82	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	1.07	ND	0.77	3.87	ND	ND
107-12-0	Propionitrile	0.30	1.50	ND	0.68	3.38	ND	ND
75-34-3	1,1-Dichloroethane	0.32	1.60	ND	1.29	6.46	ND	ND
108-05-4	Vinyl acetate	0.26	1.28	ND	0.90	4.50	ND	ND
78-93-3	2-Butanone	0.30	1.48	3.95	0.87	4.37	11.63	
108-20-3	Diisopropyl ether	0.20	0.99	ND	0.83	4.15	ND	ND
110-54-3	Hexane	0.21	1.07	3.14	0.76	3.79	11.06	
126-98-7	Methacrylonitrile	0.30	1.50	ND	0.82	4.12	ND	ND
141-78-6	Ethyl acetate	0.25	1.27	2.36	0.92	4.59	8.50	
74-97-5	Bromochloromethane	0.15	0.77	ND	0.82	4.10	ND	ND
109-99-9	Tetrahydrofuran	0.36	1.82	ND	1.07	5.36	ND	ND
78-83-1	Isobutyl alcohol	0.48	2.40	ND	1.45	7.27	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.33	1.63	ND	1.29	6.45	ND	ND
594-20-7	2,2-Dichloropropane	0.26	1.30	ND	1.20	5.98	ND	ND
67-66-3	Chloroform	0.32	1.61	ND	1.57	7.87	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	1.61	ND	1.76	8.79	ND	ND
107-06-2	1,2-Dichloroethane	0.33	1.63	ND	1.32	6.59	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.96	ND	0.87	4.34	ND	ND
110-82-7	Cyclohexane	0.22	1.12	0.26	0.77	3.84	0.90	J
71-43-2	Benzene	0.65	1.63	0.99	2.08	5.20	3.15	J
56-23-5	Carbon tetrachloride	0.32	1.61	ND	2.03	10.13	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.79	0.16	0.74	3.70	0.75	J
142-82-5	n-Heptane	0.18	0.88	0.23	0.72	3.61	0.93	J
78-87-5	1,2-Dichloropropane	0.33	1.63	ND	1.50	7.52	ND	ND
123-91-1	1,4 Dioxane	0.59	5.94	ND	2.14	21.40	ND	ND
74-95-3	Dibromomethane	0.11	0.55	ND	0.78	3.88	ND	ND
79-01-6	Trichloroethene	0.33	1.63	ND	1.75	8.74	ND	ND
75-27-4	Bromodichloromethane	0.12	0.58	ND	0.78	3.91	ND	ND
80-62-6	Methyl methacrylate	0.20	0.98	ND	0.80	4.02	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	1.10	ND	0.90	4.50	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.33	1.67	ND	1.52	7.60	ND	ND
108-88-3	Toluene	0.65	1.63	5.25	2.45	6.13	19.77	
10061-02-6	trans-1,3-Dichloropropene	0.33	1.64	ND	1.49	7.46	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	1.61	0.43	1.76	8.79	2.32	J
97-63-2	Ethyl methacrylate	0.17	0.87	ND	0.81	4.06	ND	ND
591-78-6	2-Hexanone	0.21	1.03	ND	0.85	4.23	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.96	ND	0.88	4.42	ND	ND
111-65-9	Octane	0.16	0.79	1.14	0.74	3.70	5.31	
124-48-1	Dibromochloromethane	0.12	0.58	ND	0.99	4.95	ND	ND
106-93-4	1,2-Dibromoethane	0.33	1.64	ND	2.52	12.62	ND	ND
127-18-4	Tetrachloroethene	0.32	1.61	ND	2.18	10.92	ND	ND
108-90-7	Chlorobenzene	0.32	1.61	ND	1.48	7.42	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.60	ND	0.83	4.14	ND	ND
100-41-4	Ethylbenzene	0.33	1.64	ND	1.43	7.13	ND	ND
1330-20-7	m,p-Xylenes	0.65	3.25	ND	2.83	14.13	ND	ND
111-84-2	Nonane	0.14	0.69	ND	0.73	3.63	ND	ND
100-42-5	Styrene	0.33	1.63	ND	1.39	6.93	ND	ND
75-25-2	Bromoform	0.08	0.39	ND	0.81	4.05	ND	ND
95-47-6	o-Xylene	0.32	1.61	ND	1.40	7.00	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.22	ND	2.21	22.11	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.72	ND	0.86	4.32	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.98	ND	1.00	5.01	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.77	ND	0.80	4.01	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.76	ND	0.78	3.92	ND	ND
103-65-1	n-Propylbenzene	0.22	1.09	ND	1.07	5.36	ND	ND
98-82-8	Isopropylbenzene	0.22	1.11	0.96	1.09	5.43	4.73	J
622-96-8	4-Ethyltoluene	0.18	0.90	0.78	0.88	4.41	3.84	J
108-67-8	1,3,5-Trimethylbenzene	0.33	1.67	ND	1.65	8.23	ND	ND
124-18-5	Decane	0.15	0.74	0.55	0.86	4.28	3.23	J
98-06-6	tert-butyl benzene	0.19	0.96	ND	1.06	5.29	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.32	1.61	ND	1.58	7.92	ND	ND
538-93-2	i-Butylbenzene	0.19	0.96	ND	1.06	5.29	ND	ND
135-98-8	sec-butylbenzene	0.21	1.03	ND	1.13	5.63	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	ND	1.11	2.83	ND	ND
100-44-7	Benzyl chloride	0.37	1.86	ND	1.92	9.62	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	ND	1.04	2.83	ND	ND
95-50-1	1,2-Dichlorobenzene	0.63	3.16	ND	3.80	18.99	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.12	ND	4.09	20.45	ND	ND
78-00-2	Tetraethyl lead	0.15	0.76	ND	2.01	10.03	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.30	3.25	ND	9.65	24.14	ND	ND

91-20-3	Naphthalene	0.28	0.70	ND	1.46	3.64	ND	ND
87-68-3	Hexachlorobutadiene	0.65	3.25	ND	6.94	34.70	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.81	98	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 25**

Description: 2372-2-9 **Date Sampled:** 11/04/11 **Time:** 14:52
Can/Tube#: 936 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 20:18
Air Volume: 500 ml **Can Dilution Factor:** 1.75

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.37	1.84	ND	1.82	9.08	ND	ND
74-87-3	Chloromethane	0.36	1.79	ND	0.74	3.68	ND	ND
76-14-2	Freon 114	0.36	1.82	ND	2.54	12.72	ND	ND
75-01-4	Vinyl chloride	0.36	1.82	ND	0.93	4.65	ND	ND
106-99-0	1,3-Butadiene	0.37	1.87	ND	0.83	4.14	ND	ND
74-83-9	Bromomethane	0.36	1.82	ND	1.41	7.06	ND	ND
75-00-3	Chloroethane	0.36	1.82	ND	0.96	4.80	ND	ND
64-17-5	Ethanol	1.20	6.02	5.27	2.27	11.34	9.93	J
75-69-4	Trichlorofluoromethane	0.36	1.82	0.54	2.04	10.22	3.02	J
67-64-1	Acetone	0.79	1.98	64.66	1.88	4.71	153.58	B
67-63-0	2-propanol	0.92	4.59	8.67	2.25	11.26	21.30	
75-65-0	t-Butanol	0.26	1.32	ND	0.80	4.00	ND	ND
4227-95-6	Methyl iodide	0.11	0.53	ND	0.61	3.07	ND	ND
75-35-4	1,1-Dichloroethene	0.71	3.54	ND	2.80	14.00	ND	ND
107-13-1	Acrylonitrile	0.41	2.03	ND	0.88	4.41	ND	ND
76-13-1	Freon 113	0.36	1.79	ND	2.73	13.67	ND	ND
107-05-1	Allyl chloride	0.31	1.55	ND	0.97	4.85	ND	ND
75-09-2	Dichloromethane	0.36	1.82	0.72	1.26	6.32	2.50	J
75-15-0	Carbon disulfide	0.30	2.10	ND	0.93	6.52	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.23	1.63	ND	0.92	6.45	ND	ND
1634-04-4	Methyl tert butyl ether	0.24	1.19	ND	0.86	4.29	ND	ND
107-12-0	Propionitrile	0.33	1.66	ND	0.75	3.74	ND	ND
75-34-3	1,1-Dichloroethane	0.35	1.77	ND	1.43	7.15	ND	ND
108-05-4	Vinyl acetate	0.28	1.42	0.47	1.00	4.99	1.64	J
78-93-3	2-Butanone	0.33	1.64	2.08	0.97	4.84	6.12	
108-20-3	Diisopropyl ether	0.22	1.10	ND	0.92	4.59	ND	ND
110-54-3	Hexane	0.24	1.19	3.72	0.84	4.19	13.12	
126-98-7	Methacrylonitrile	0.33	1.66	ND	0.91	4.56	ND	ND
141-78-6	Ethyl acetate	0.28	1.41	11.11	1.02	5.08	40.02	
74-97-5	Bromochloromethane	0.17	0.86	ND	0.91	4.54	ND	ND
109-99-9	Tetrahydrofuran	0.40	2.01	ND	1.19	5.93	ND	ND
78-83-1	Isobutyl alcohol	0.53	2.66	ND	1.61	8.06	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.36	1.80	ND	1.43	7.14	ND	ND
594-20-7	2,2-Dichloropropane	0.29	1.44	ND	1.32	6.63	ND	ND
67-66-3	Chloroform	0.36	1.79	ND	1.74	8.71	ND	ND
71-55-6	1,1,1-Trichloroethane	0.36	1.79	ND	1.95	9.73	ND	ND
107-06-2	1,2-Dichloroethane	0.36	1.80	ND	1.46	7.29	ND	ND

563-58-6	1,1-Dichloropropene	0.21	1.06	ND	0.96	4.81	ND	ND
110-82-7	Cyclohexane	0.25	1.24	0.55	0.85	4.25	1.89	J
71-43-2	Benzene	0.72	1.80	2.16	2.30	5.75	6.88	
56-23-5	Carbon tetrachloride	0.36	1.79	ND	2.24	11.22	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.18	0.88	0.20	0.82	4.10	0.92	J
142-82-5	n-Heptane	0.20	0.98	1.70	0.80	4.00	6.98	
78-87-5	1,2-Dichloropropane	0.36	1.80	ND	1.67	8.33	ND	ND
123-91-1	1,4 Dioxane	0.66	6.58	ND	2.37	23.70	ND	ND
74-95-3	Dibromomethane	0.12	0.61	ND	0.86	4.30	ND	ND
79-01-6	Trichloroethene	0.36	1.80	ND	1.94	9.68	ND	ND
75-27-4	Bromodichloromethane	0.13	0.65	ND	0.87	4.34	ND	ND
80-62-6	Methyl methacrylate	0.22	1.09	ND	0.89	4.45	ND	ND
108-10-1	4-Methyl-2-pentanone	0.24	1.22	0.33	1.00	4.99	1.34	J
10061-01-5	cis-1,3-Dichloropropene	0.37	1.86	ND	1.68	8.42	ND	ND
108-88-3	Toluene	0.72	1.80	23.10	2.71	6.79	86.95	
10061-02-6	trans-1,3-Dichloropropene	0.36	1.82	ND	1.65	8.26	ND	ND
79-00-5	1,1,2-Trichloroethane	0.36	1.79	1.91	1.95	9.73	10.40	
97-63-2	Ethyl methacrylate	0.19	0.96	ND	0.90	4.49	ND	ND
591-78-6	2-Hexanone	0.23	1.14	ND	0.94	4.69	ND	ND
142-28-9	1,3-Dichloropropane	0.21	1.06	ND	0.98	4.90	ND	ND
111-65-9	Octane	0.18	0.88	2.81	0.82	4.10	13.10	
124-48-1	Dibromochloromethane	0.13	0.64	ND	1.09	5.48	ND	ND
106-93-4	1,2-Dibromoethane	0.36	1.82	ND	2.80	13.98	ND	ND
127-18-4	Tetrachloroethene	0.36	1.79	ND	2.42	12.10	ND	ND
108-90-7	Chlorobenzene	0.36	1.79	ND	1.64	8.22	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.67	ND	0.91	4.59	ND	ND
100-41-4	Ethylbenzene	0.36	1.82	0.44	1.58	7.90	1.90	J
1330-20-7	m,p-Xylenes	0.72	3.61	1.82	3.13	15.65	7.89	J
111-84-2	Nonane	0.15	0.77	0.92	0.80	4.02	4.84	
100-42-5	Styrene	0.36	1.80	0.47	1.54	7.68	1.98	J
75-25-2	Bromoform	0.09	0.43	ND	0.89	4.48	ND	ND
95-47-6	o-Xylene	0.36	1.79	0.55	1.55	7.75	2.41	J
79-34-5	1,1,2,2-Tetrachloroethane	0.36	3.57	ND	2.45	24.49	ND	ND
96-18-4	1,2,3-Trichloropropane	0.16	0.79	ND	0.96	4.79	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.22	1.09	ND	1.11	5.54	ND	ND
95-49-8	2-Chlorotoluene	0.17	0.86	ND	0.89	4.44	ND	ND
106-43-4	4-Chlorotoluene	0.17	0.84	ND	0.87	4.35	ND	ND
103-65-1	n-Propylbenzene	0.24	1.21	ND	1.19	5.93	ND	ND
98-82-8	Isopropylbenzene	0.25	1.23	0.55	1.20	6.02	2.71	J
622-96-8	4-Ethyltoluene	0.20	0.99	0.45	0.98	4.88	2.22	J
108-67-8	1,3,5-Trimethylbenzene	0.37	1.86	ND	1.82	9.11	ND	ND
124-18-5	Decane	0.16	0.82	3.42	0.95	4.74	19.90	
98-06-6	tert-butyl benzene	0.21	1.07	ND	1.17	5.86	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.36	1.79	0.50	1.75	8.77	2.43	J
538-93-2	i-Butylbenzene	0.21	1.07	ND	1.17	5.86	ND	ND
135-98-8	sec-butylbenzene	0.23	1.14	ND	1.25	6.24	ND	ND
541-73-1	1,3-Dichlorobenzene	0.71	3.57	ND	4.29	21.45	ND	ND
99-87-6	Isopropyltoluene	0.22	0.57	ND	1.23	3.13	ND	ND
100-44-7	Benzyl chloride	0.41	2.06	ND	2.13	10.65	ND	ND
106-46-7	1,4-Dichlorobenzene	0.71	3.57	ND	4.29	21.45	ND	ND
104-51-8	n-Butylbenzene	0.21	0.57	ND	1.15	3.13	ND	ND
95-50-1	1,2-Dichlorobenzene	0.70	3.50	ND	4.21	21.03	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.47	2.35	ND	4.53	22.65	ND	ND
78-00-2	Tetraethyl lead	0.17	0.84	ND	2.22	11.11	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.44	3.61	ND	10.69	26.73	ND	ND

91-20-3	Naphthalene	0.31	0.77	ND	1.61	4.04	ND	ND
87-68-3	Hexachlorobutadiene	0.72	3.61	ND	7.69	38.43	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.25	103	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 26**

Description: 2372-2-10 **Date Sampled:** 11/04/11 **Time:** 14:42
Can/Tube#: 937 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111811-MSA **Date Analyzed:** 11/18/11 **Time:** 20:56
Air Volume: 500 ml **Can Dilution Factor:** 1.58

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.33	1.66	0.93	1.64	8.20	4.61	J
74-87-3	Chloromethane	0.32	1.61	1.75	0.67	3.33	3.62	
76-14-2	Freon 114	0.33	1.64	ND	2.30	11.48	ND	ND
75-01-4	Vinyl chloride	0.33	1.64	ND	0.84	4.20	ND	ND
106-99-0	1,3-Butadiene	0.34	1.69	ND	0.75	3.74	ND	ND
74-83-9	Bromomethane	0.33	1.64	ND	1.27	6.37	ND	ND
75-00-3	Chloroethane	0.33	1.64	ND	0.87	4.33	ND	ND
64-17-5	Ethanol	1.09	5.44	ND	2.05	10.24	ND	ND
75-69-4	Trichlorofluoromethane	0.33	1.64	0.54	1.85	9.23	3.04	J
67-64-1	Acetone	0.72	1.79	74.24	1.70	4.25	176.34	B
67-63-0	2-propanol	0.83	4.14	4.10	2.03	10.17	10.07	J
75-65-0	t-Butanol	0.24	1.19	0.50	0.72	3.61	1.51	J
4227-95-6	Methyl iodide	0.09	0.47	ND	0.55	2.77	ND	ND
75-35-4	1,1-Dichloroethene	0.64	3.19	ND	2.53	12.64	ND	ND
107-13-1	Acrylonitrile	0.37	1.83	ND	0.80	3.98	ND	ND
76-13-1	Freon 113	0.32	1.61	ND	2.47	12.35	ND	ND
107-05-1	Allyl chloride	0.28	1.40	ND	0.87	4.38	ND	ND
75-09-2	Dichloromethane	0.33	1.64	0.49	1.14	5.70	1.71	J
75-15-0	Carbon disulfide	0.27	1.89	ND	0.84	5.89	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.21	1.47	ND	0.83	5.82	ND	ND
1634-04-4	Methyl tert butyl ether	0.21	1.07	ND	0.77	3.87	ND	ND
107-12-0	Propionitrile	0.30	1.50	ND	0.68	3.38	ND	ND
75-34-3	1,1-Dichloroethane	0.32	1.60	ND	1.29	6.46	ND	ND
108-05-4	Vinyl acetate	0.26	1.28	ND	0.90	4.50	ND	ND
78-93-3	2-Butanone	0.30	1.48	4.42	0.87	4.37	13.02	
108-20-3	Diisopropyl ether	0.20	0.99	ND	0.83	4.15	ND	ND
110-54-3	Hexane	0.21	1.07	2.54	0.76	3.79	8.93	
126-98-7	Methacrylonitrile	0.30	1.50	ND	0.82	4.12	ND	ND
141-78-6	Ethyl acetate	0.25	1.27	4.45	0.92	4.59	16.03	
74-97-5	Bromochloromethane	0.15	0.77	ND	0.82	4.10	ND	ND
109-99-9	Tetrahydrofuran	0.36	1.82	ND	1.07	5.36	ND	ND
78-83-1	Isobutyl alcohol	0.48	2.40	13.41	1.45	7.27	40.61	
156-59-2	cis-1,2-Dichloroethene	0.33	1.63	ND	1.29	6.45	ND	ND
594-20-7	2,2-Dichloropropane	0.26	1.30	ND	1.20	5.98	ND	ND
67-66-3	Chloroform	0.32	1.61	ND	1.57	7.87	ND	ND
71-55-6	1,1,1-Trichloroethane	0.32	1.61	ND	1.76	8.79	ND	ND
107-06-2	1,2-Dichloroethane	0.33	1.63	ND	1.32	6.59	ND	ND

563-58-6	1,1-Dichloropropene	0.19	0.96	ND	0.87	4.34	ND	ND
110-82-7	Cyclohexane	0.22	1.12	0.52	0.77	3.84	1.80	J
71-43-2	Benzene	0.65	1.63	1.57	2.08	5.20	5.01	J
56-23-5	Carbon tetrachloride	0.32	1.61	ND	2.03	10.13	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.16	0.79	0.22	0.74	3.70	1.03	J
142-82-5	n-Heptane	0.18	0.88	1.10	0.72	3.61	4.52	
78-87-5	1,2-Dichloropropane	0.33	1.63	ND	1.50	7.52	ND	ND
123-91-1	1,4 Dioxane	0.59	5.94	ND	2.14	21.40	ND	ND
74-95-3	Dibromomethane	0.11	0.55	ND	0.78	3.88	ND	ND
79-01-6	Trichloroethene	0.33	1.63	ND	1.75	8.74	ND	ND
75-27-4	Bromodichloromethane	0.12	0.58	ND	0.78	3.91	ND	ND
80-62-6	Methyl methacrylate	0.20	0.98	ND	0.80	4.02	ND	ND
108-10-1	4-Methyl-2-pentanone	0.22	1.10	0.22	0.90	4.50	0.92	J
10061-01-5	cis-1,3-Dichloropropene	0.33	1.67	ND	1.52	7.60	ND	ND
108-88-3	Toluene	0.65	1.63	14.51	2.45	6.13	54.62	
10061-02-6	trans-1,3-Dichloropropene	0.33	1.64	ND	1.49	7.46	ND	ND
79-00-5	1,1,2-Trichloroethane	0.32	1.61	1.13	1.76	8.79	6.15	J
97-63-2	Ethyl methacrylate	0.17	0.87	ND	0.81	4.06	ND	ND
591-78-6	2-Hexanone	0.21	1.03	ND	0.85	4.23	ND	ND
142-28-9	1,3-Dichloropropane	0.19	0.96	ND	0.88	4.42	ND	ND
111-65-9	Octane	0.16	0.79	2.00	0.74	3.70	9.35	
124-48-1	Dibromochloromethane	0.12	0.58	ND	0.99	4.95	ND	ND
106-93-4	1,2-Dibromoethane	0.33	1.64	ND	2.52	12.62	ND	ND
127-18-4	Tetrachloroethene	0.32	1.61	ND	2.18	10.92	ND	ND
108-90-7	Chlorobenzene	0.32	1.61	ND	1.48	7.42	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.12	0.60	ND	0.83	4.14	ND	ND
100-41-4	Ethylbenzene	0.33	1.64	0.54	1.43	7.13	2.34	J
1330-20-7	m,p-Xylenes	0.65	3.25	1.96	2.83	14.13	8.50	J
111-84-2	Nonane	0.14	0.69	1.58	0.73	3.63	8.31	
100-42-5	Styrene	0.33	1.63	0.59	1.39	6.93	2.52	J
75-25-2	Bromoform	0.08	0.39	ND	0.81	4.05	ND	ND
95-47-6	o-Xylene	0.32	1.61	0.54	1.40	7.00	2.36	J
79-34-5	1,1,2,2-Tetrachloroethane	0.32	3.22	ND	2.21	22.11	ND	ND
96-18-4	1,2,3-Trichloropropane	0.14	0.72	ND	0.86	4.32	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.20	0.98	ND	1.00	5.01	ND	ND
95-49-8	2-Chlorotoluene	0.15	0.77	ND	0.80	4.01	ND	ND
106-43-4	4-Chlorotoluene	0.15	0.76	ND	0.78	3.92	ND	ND
103-65-1	n-Propylbenzene	0.22	1.09	ND	1.07	5.36	ND	ND
98-82-8	Isopropylbenzene	0.22	1.11	0.34	1.09	5.43	1.66	J
622-96-8	4-Ethyltoluene	0.18	0.90	0.25	0.88	4.41	1.22	J
108-67-8	1,3,5-Trimethylbenzene	0.33	1.67	ND	1.65	8.23	ND	ND
124-18-5	Decane	0.15	0.74	3.96	0.86	4.28	23.02	
98-06-6	tert-butyl benzene	0.19	0.96	ND	1.06	5.29	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.32	1.61	0.36	1.58	7.92	1.75	J
538-93-2	i-Butylbenzene	0.19	0.96	ND	1.06	5.29	ND	ND
135-98-8	sec-butylbenzene	0.21	1.03	ND	1.13	5.63	ND	ND
541-73-1	1,3-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
99-87-6	Isopropyltoluene	0.20	0.52	ND	1.11	2.83	ND	ND
100-44-7	Benzyl chloride	0.37	1.86	ND	1.92	9.62	ND	ND
106-46-7	1,4-Dichlorobenzene	0.64	3.22	ND	3.87	19.37	ND	ND
104-51-8	n-Butylbenzene	0.19	0.52	ND	1.04	2.83	ND	ND
95-50-1	1,2-Dichlorobenzene	0.63	3.16	ND	3.80	18.99	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.42	2.12	ND	4.09	20.45	ND	ND
78-00-2	Tetraethyl lead	0.15	0.76	ND	2.01	10.03	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.30	3.25	ND	9.65	24.14	ND	ND

91-20-3	Naphthalene	0.28	0.70	ND	1.46	3.64	ND	ND
87-68-3	Hexachlorobutadiene	0.65	3.25	ND	6.94	34.70	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.70	107	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 27**

Description: 2372-2-11 **Date Sampled:** 11/04/11 **Time:** 14:52
Can/Tube#: 327 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSA **Date Analyzed:** 11/19/11 **Time:** 14:03
Air Volume: 500 ml **Can Dilution Factor:** 1.40

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.29	1.47	0.78	1.45	7.27	3.85	J
74-87-3	Chloromethane	0.29	1.43	1.95	0.59	2.95	4.02	
76-14-2	Freon 114	0.29	1.46	ND	2.03	10.17	ND	ND
75-01-4	Vinyl chloride	0.29	1.46	ND	0.74	3.72	ND	ND
106-99-0	1,3-Butadiene	0.30	1.50	0.33	0.66	3.31	0.73	J
74-83-9	Bromomethane	0.29	1.46	ND	1.13	5.65	ND	ND
75-00-3	Chloroethane	0.29	1.46	ND	0.77	3.84	ND	ND
64-17-5	Ethanol	0.96	4.82	4.75	1.82	9.08	8.95	J
75-69-4	Trichlorofluoromethane	0.29	1.46	0.50	1.64	8.18	2.82	J
67-64-1	Acetone	0.63	1.58	84.45	1.51	3.76	200.58	B
67-63-0	2-propanol	0.73	3.67	ND	1.80	9.01	ND	ND
75-65-0	t-Butanol	0.21	1.06	0.38	0.64	3.20	1.15	J
4227-95-6	Methyl iodide	0.08	0.42	ND	0.49	2.45	ND	ND
75-35-4	1,1-Dichloroethene	0.57	2.83	ND	2.24	11.20	ND	ND
107-13-1	Acrylonitrile	0.32	1.62	ND	0.71	3.53	ND	ND
76-13-1	Freon 113	0.29	1.43	ND	2.19	10.94	ND	ND
107-05-1	Allyl chloride	0.25	1.24	ND	0.77	3.88	ND	ND
75-09-2	Dichloromethane	0.29	1.46	0.94	1.01	5.05	3.25	J
75-15-0	Carbon disulfide	0.24	1.68	0.57	0.74	5.22	1.77	J
156-60-5	trans-1,2-Dichloroethene	0.19	1.30	ND	0.74	5.16	ND	ND
1634-04-4	Methyl tert butyl ether	0.19	0.95	ND	0.68	3.43	ND	ND
107-12-0	Propionitrile	0.27	1.33	ND	0.60	3.00	ND	ND
75-34-3	1,1-Dichloroethane	0.28	1.41	ND	1.14	5.72	ND	ND
108-05-4	Vinyl acetate	0.23	1.13	0.35	0.80	3.99	1.24	J
78-93-3	2-Butanone	0.26	1.31	1.85	0.77	3.87	5.45	
108-20-3	Diisopropyl ether	0.18	0.88	ND	0.73	3.67	ND	ND
110-54-3	Hexane	0.19	0.95	2.75	0.67	3.35	9.67	
126-98-7	Methacrylonitrile	0.27	1.33	ND	0.73	3.65	ND	ND
141-78-6	Ethyl acetate	0.23	1.13	8.94	0.81	4.06	32.20	
74-97-5	Bromochloromethane	0.14	0.69	ND	0.73	3.63	ND	ND
109-99-9	Tetrahydrofuran	0.32	1.61	0.98	0.95	4.75	2.90	J
78-83-1	Isobutyl alcohol	0.43	2.13	ND	1.29	6.45	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.29	1.44	ND	1.14	5.71	ND	ND
594-20-7	2,2-Dichloropropane	0.23	1.15	ND	1.06	5.30	ND	ND
67-66-3	Chloroform	0.29	1.43	ND	1.39	6.97	ND	ND
71-55-6	1,1,1-Trichloroethane	0.29	1.43	ND	1.56	7.79	ND	ND
107-06-2	1,2-Dichloroethane	0.29	1.44	ND	1.17	5.84	ND	ND

563-58-6	1,1-Dichloropropene	0.17	0.85	ND	0.77	3.85	ND	ND
110-82-7	Cyclohexane	0.20	0.99	0.57	0.68	3.40	1.97	J
71-43-2	Benzene	0.58	1.44	1.22	1.84	4.60	3.88	J
56-23-5	Carbon tetrachloride	0.29	1.43	ND	1.80	8.98	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.14	0.70	0.27	0.65	3.28	1.26	J
142-82-5	n-Heptane	0.16	0.78	0.45	0.64	3.20	1.84	J
78-87-5	1,2-Dichloropropane	0.29	1.44	ND	1.33	6.66	ND	ND
123-91-1	1,4 Dioxane	0.53	5.26	ND	1.90	18.96	ND	ND
74-95-3	Dibromomethane	0.10	0.48	ND	0.69	3.44	ND	ND
79-01-6	Trichloroethene	0.29	1.44	ND	1.55	7.75	ND	ND
75-27-4	Bromodichloromethane	0.10	0.52	ND	0.69	3.47	ND	ND
80-62-6	Methyl methacrylate	0.17	0.87	ND	0.71	3.56	ND	ND
108-10-1	4-Methyl-2-pentanone	0.19	0.97	ND	0.80	3.99	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.30	1.48	ND	1.35	6.73	ND	ND
108-88-3	Toluene	0.58	1.44	6.17	2.17	5.43	23.22	
10061-02-6	trans-1,3-Dichloropropene	0.29	1.46	ND	1.32	6.61	ND	ND
79-00-5	1,1,2-Trichloroethane	0.29	1.43	ND	1.56	7.79	ND	ND
97-63-2	Ethyl methacrylate	0.15	0.77	ND	0.72	3.59	ND	ND
591-78-6	2-Hexanone	0.18	0.92	ND	0.75	3.75	ND	ND
142-28-9	1,3-Dichloropropane	0.17	0.85	ND	0.78	3.92	ND	ND
111-65-9	Octane	0.14	0.70	0.52	0.66	3.28	2.41	J
124-48-1	Dibromochloromethane	0.10	0.52	ND	0.88	4.39	ND	ND
106-93-4	1,2-Dibromoethane	0.29	1.46	ND	2.24	11.18	ND	ND
127-18-4	Tetrachloroethene	0.29	1.43	ND	1.94	9.68	ND	ND
108-90-7	Chlorobenzene	0.29	1.43	ND	1.31	6.57	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.11	0.53	ND	0.73	3.67	ND	ND
100-41-4	Ethylbenzene	0.29	1.46	0.48	1.26	6.32	2.06	J
1330-20-7	m,p-Xylenes	0.58	2.88	1.47	2.50	12.52	6.40	J
111-84-2	Nonane	0.12	0.61	1.23	0.64	3.22	6.47	
100-42-5	Styrene	0.29	1.44	ND	1.23	6.14	ND	ND
75-25-2	Bromoform	0.07	0.35	ND	0.71	3.59	ND	ND
95-47-6	o-Xylene	0.29	1.43	0.50	1.24	6.20	2.16	J
79-34-5	1,1,2,2-Tetrachloroethane	0.29	2.86	ND	1.96	19.59	ND	ND
96-18-4	1,2,3-Trichloropropane	0.13	0.64	ND	0.76	3.83	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.17	0.87	ND	0.89	4.44	ND	ND
95-49-8	2-Chlorotoluene	0.14	0.69	ND	0.71	3.55	ND	ND
106-43-4	4-Chlorotoluene	0.13	0.67	ND	0.70	3.48	ND	ND
103-65-1	n-Propylbenzene	0.19	0.97	ND	0.95	4.75	ND	ND
98-82-8	Isopropylbenzene	0.20	0.98	0.23	0.96	4.82	1.14	J
622-96-8	4-Ethyltoluene	0.16	0.80	ND	0.78	3.91	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.30	1.48	ND	1.46	7.29	ND	ND
124-18-5	Decane	0.13	0.65	2.84	0.76	3.80	16.49	
98-06-6	tert-butyl benzene	0.17	0.85	ND	0.94	4.69	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.29	1.43	ND	1.40	7.02	ND	ND
538-93-2	i-Butylbenzene	0.17	0.85	ND	0.94	4.69	ND	ND
135-98-8	sec-butylbenzene	0.18	0.91	ND	1.00	4.99	ND	ND
541-73-1	1,3-Dichlorobenzene	0.57	2.86	ND	3.43	17.16	ND	ND
99-87-6	Isopropyltoluene	0.18	0.46	ND	0.98	2.50	ND	ND
100-44-7	Benzyl chloride	0.33	1.65	ND	1.70	8.52	ND	ND
106-46-7	1,4-Dichlorobenzene	0.57	2.86	ND	3.43	17.16	ND	ND
104-51-8	n-Butylbenzene	0.17	0.46	ND	0.92	2.50	ND	ND
95-50-1	1,2-Dichlorobenzene	0.56	2.80	ND	3.37	16.83	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.38	1.88	ND	3.62	18.12	ND	ND
78-00-2	Tetraethyl lead	0.13	0.67	ND	1.78	8.88	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.15	2.88	ND	8.55	21.39	ND	ND

91-20-3	Naphthalene	0.25	0.62	ND	1.29	3.23	ND	ND
87-68-3	Hexachlorobutadiene	0.58	2.88	ND	6.15	30.75	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.19	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 28**

Description: 2372-2-12 **Date Sampled:** 11/04/11 **Time:** 14:47
Can/Tube#: 341 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSA **Date Analyzed:** 11/19/11 **Time:** 15:21
Air Volume: 200 ml **Can Dilution Factor:** 1.21

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.64	3.18	0.93	3.14	15.70	4.62	J
74-87-3	Chloromethane	0.62	3.09	1.47	1.27	6.37	3.03	J
76-14-2	Freon 114	0.63	3.15	ND	4.40	21.98	ND	ND
75-01-4	Vinyl chloride	0.63	3.15	ND	1.61	8.04	ND	ND
106-99-0	1,3-Butadiene	0.65	3.24	ND	1.43	7.16	ND	ND
74-83-9	Bromomethane	0.63	3.15	ND	2.44	12.20	ND	ND
75-00-3	Chloroethane	0.63	3.15	ND	1.66	8.30	ND	ND
64-17-5	Ethanol	2.08	10.41	17.64	3.92	19.61	33.24	
75-69-4	Trichlorofluoromethane	0.63	3.15	ND	3.53	17.67	ND	ND
67-64-1	Acetone	1.37	3.42	82.49	3.25	8.13	195.93	B
67-63-0	2-propanol	1.59	7.93	1.75	3.89	19.47	4.31	J
75-65-0	t-Butanol	0.46	2.28	2.98	1.38	6.91	9.01	
4227-95-6	Methyl iodide	0.18	0.91	ND	1.06	5.30	ND	ND
75-35-4	1,1-Dichloroethene	1.22	6.11	ND	4.84	24.20	ND	ND
107-13-1	Acrylonitrile	0.70	3.51	ND	1.52	7.62	ND	ND
76-13-1	Freon 113	0.62	3.09	ND	4.73	23.64	ND	ND
107-05-1	Allyl chloride	0.54	2.68	ND	1.67	8.38	ND	ND
75-09-2	Dichloromethane	0.63	3.15	1.22	2.18	10.92	4.23	J
75-15-0	Carbon disulfide	0.52	3.62	0.90	1.61	11.27	2.81	J
156-60-5	trans-1,2-Dichloroethene	0.40	2.81	ND	1.59	11.14	ND	ND
1634-04-4	Methyl tert butyl ether	0.41	2.06	ND	1.48	7.41	ND	ND
107-12-0	Propionitrile	0.57	2.87	ND	1.29	6.47	ND	ND
75-34-3	1,1-Dichloroethane	0.61	3.06	ND	2.47	12.36	ND	ND
108-05-4	Vinyl acetate	0.49	2.45	ND	1.72	8.62	ND	ND
78-93-3	2-Butanone	0.57	2.84	2.25	1.67	8.36	6.62	J
108-20-3	Diisopropyl ether	0.38	1.90	ND	1.59	7.94	ND	ND
110-54-3	Hexane	0.41	2.06	3.11	1.45	7.25	10.94	
126-98-7	Methacrylonitrile	0.57	2.87	ND	1.58	7.88	ND	ND
141-78-6	Ethyl acetate	0.49	2.44	11.48	1.76	8.78	41.35	
74-97-5	Bromochloromethane	0.30	1.48	ND	1.57	7.84	ND	ND
109-99-9	Tetrahydrofuran	0.70	3.48	ND	2.05	10.25	ND	ND
78-83-1	Isobutyl alcohol	0.92	4.60	ND	2.79	13.93	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.62	3.12	ND	2.47	12.34	ND	ND
594-20-7	2,2-Dichloropropane	0.50	2.48	ND	2.29	11.46	ND	ND
67-66-3	Chloroform	0.62	3.09	ND	3.01	15.06	ND	ND
71-55-6	1,1,1-Trichloroethane	0.62	3.09	ND	3.37	16.83	ND	ND
107-06-2	1,2-Dichloroethane	0.62	3.12	ND	2.52	12.61	ND	ND

563-58-6	1,1-Dichloropropene	0.37	1.83	ND	1.66	8.32	ND	ND
110-82-7	Cyclohexane	0.43	2.14	0.76	1.47	7.35	2.63	J
71-43-2	Benzene	1.25	3.12	2.26	3.98	9.95	7.20	J
56-23-5	Carbon tetrachloride	0.62	3.09	ND	3.88	19.40	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.30	1.52	ND	1.42	7.09	ND	ND
142-82-5	n-Heptane	0.34	1.69	1.05	1.38	6.91	4.30	J
78-87-5	1,2-Dichloropropane	0.62	3.12	ND	2.88	14.39	ND	ND
123-91-1	1,4 Dioxane	1.14	11.37	ND	4.10	40.96	ND	ND
74-95-3	Dibromomethane	0.21	1.05	ND	1.49	7.44	ND	ND
79-01-6	Trichloroethene	0.62	3.12	ND	3.35	16.74	ND	ND
75-27-4	Bromodichloromethane	0.22	1.12	ND	1.50	7.49	ND	ND
80-62-6	Methyl methacrylate	0.38	1.88	ND	1.54	7.70	ND	ND
108-10-1	4-Methyl-2-pentanone	0.42	2.11	ND	1.72	8.62	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.64	3.21	ND	2.91	14.55	ND	ND
108-88-3	Toluene	1.25	3.12	10.53	4.69	11.73	39.65	
10061-02-6	trans-1,3-Dichloropropene	0.63	3.15	ND	2.86	14.28	ND	ND
79-00-5	1,1,2-Trichloroethane	0.62	3.09	0.93	3.37	16.83	5.08	J
97-63-2	Ethyl methacrylate	0.33	1.66	ND	1.55	7.77	ND	ND
591-78-6	2-Hexanone	0.40	1.98	ND	1.62	8.10	ND	ND
142-28-9	1,3-Dichloropropane	0.37	1.83	ND	1.69	8.47	ND	ND
111-65-9	Octane	0.30	1.52	3.10	1.42	7.09	14.48	
124-48-1	Dibromochloromethane	0.22	1.11	ND	1.89	9.48	ND	ND
106-93-4	1,2-Dibromoethane	0.63	3.15	ND	4.83	24.17	ND	ND
127-18-4	Tetrachloroethene	0.62	3.09	ND	4.18	20.91	ND	ND
108-90-7	Chlorobenzene	0.62	3.09	ND	2.84	14.20	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.23	1.16	ND	1.58	7.93	ND	ND
100-41-4	Ethylbenzene	0.63	3.15	ND	2.73	13.66	ND	ND
1330-20-7	m,p-Xylenes	1.25	6.23	1.43	5.41	27.05	6.20	J
111-84-2	Nonane	0.26	1.32	1.03	1.39	6.95	5.39	J
100-42-5	Styrene	0.62	3.12	ND	2.65	13.27	ND	ND
75-25-2	Bromoform	0.15	0.75	ND	1.54	7.75	ND	ND
95-47-6	o-Xylene	0.62	3.09	ND	2.68	13.40	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.62	6.17	ND	4.23	42.33	ND	ND
96-18-4	1,2,3-Trichloropropane	0.27	1.37	ND	1.65	8.28	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.38	1.88	ND	1.92	9.58	ND	ND
95-49-8	2-Chlorotoluene	0.30	1.48	ND	1.53	7.67	ND	ND
106-43-4	4-Chlorotoluene	0.29	1.45	ND	1.50	7.51	ND	ND
103-65-1	n-Propylbenzene	0.42	2.09	ND	2.05	10.26	ND	ND
98-82-8	Isopropylbenzene	0.42	2.12	ND	2.08	10.40	ND	ND
622-96-8	4-Ethyltoluene	0.34	1.72	ND	1.69	8.44	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.64	3.21	ND	3.15	15.76	ND	ND
124-18-5	Decane	0.28	1.41	3.25	1.64	8.20	18.91	
98-06-6	tert-butyl benzene	0.37	1.85	ND	2.02	10.12	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.62	3.09	ND	3.03	15.16	ND	ND
538-93-2	i-Butylbenzene	0.37	1.85	ND	2.02	10.12	ND	ND
135-98-8	sec-butylbenzene	0.39	1.97	ND	2.16	10.79	ND	ND
541-73-1	1,3-Dichlorobenzene	1.23	6.17	ND	7.42	37.08	ND	ND
99-87-6	Isopropyltoluene	0.39	0.99	ND	2.12	5.41	ND	ND
100-44-7	Benzyl chloride	0.71	3.56	ND	3.68	18.41	ND	ND
106-46-7	1,4-Dichlorobenzene	1.23	6.17	ND	7.42	37.08	ND	ND
104-51-8	n-Butylbenzene	0.36	0.99	ND	1.99	5.41	ND	ND
95-50-1	1,2-Dichlorobenzene	1.21	6.05	ND	7.27	36.36	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.81	4.05	ND	7.83	39.16	ND	ND
78-00-2	Tetraethyl lead	0.29	1.45	ND	3.84	19.20	ND	ND
120-82-1	1,2,4-Trichlorobenzene	2.49	6.23	ND	18.48	46.21	ND	ND

91-20-3	Naphthalene	0.53	1.33	ND	2.79	6.98	ND	ND
87-68-3	Hexachlorobutadiene	1.25	6.23	ND	13.29	66.44	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.38	104	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 29**

Description: 2372-2-13 **Date Sampled:** 11/04/11 **Time:** 13:57
Can/Tube#: 935 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSA **Date Analyzed:** 11/19/11 **Time:** 17:03
Air Volume: 500 ml **Can Dilution Factor:** 1.71

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.36	1.80	0.50	1.77	8.87	2.46	J
74-87-3	Chloromethane	0.35	1.74	0.73	0.72	3.60	1.51	J
76-14-2	Freon 114	0.36	1.78	ND	2.48	12.42	ND	ND
75-01-4	Vinyl chloride	0.36	1.78	ND	0.91	4.54	ND	ND
106-99-0	1,3-Butadiene	0.37	1.83	ND	0.81	4.05	ND	ND
74-83-9	Bromomethane	0.36	1.78	ND	1.38	6.90	ND	ND
75-00-3	Chloroethane	0.36	1.78	ND	0.94	4.69	ND	ND
64-17-5	Ethanol	1.18	5.88	ND	2.22	11.09	ND	ND
75-69-4	Trichlorofluoromethane	0.36	1.78	ND	2.00	9.99	ND	ND
67-64-1	Acetone	0.77	1.94	68.99	1.84	4.60	163.85	B
67-63-0	2-propanol	0.90	4.48	7.97	2.20	11.01	19.59	
75-65-0	t-Butanol	0.26	1.29	ND	0.78	3.91	ND	ND
4227-95-6	Methyl iodide	0.10	0.51	ND	0.60	3.00	ND	ND
75-35-4	1,1-Dichloroethene	0.69	3.45	ND	2.74	13.68	ND	ND
107-13-1	Acrylonitrile	0.40	1.98	ND	0.86	4.31	ND	ND
76-13-1	Freon 113	0.35	1.74	ND	2.67	13.36	ND	ND
107-05-1	Allyl chloride	0.30	1.52	ND	0.95	4.74	ND	ND
75-09-2	Dichloromethane	0.36	1.78	ND	1.23	6.17	ND	ND
75-15-0	Carbon disulfide	0.29	2.05	ND	0.91	6.37	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.23	1.59	ND	0.90	6.30	ND	ND
1634-04-4	Methyl tert butyl ether	0.23	1.16	ND	0.84	4.19	ND	ND
107-12-0	Propionitrile	0.32	1.62	ND	0.73	3.66	ND	ND
75-34-3	1,1-Dichloroethane	0.35	1.73	ND	1.40	6.99	ND	ND
108-05-4	Vinyl acetate	0.28	1.39	ND	0.97	4.88	ND	ND
78-93-3	2-Butanone	0.32	1.60	0.59	0.94	4.73	1.75	J
108-20-3	Diisopropyl ether	0.21	1.07	ND	0.90	4.49	ND	ND
110-54-3	Hexane	0.23	1.16	5.29	0.82	4.10	18.65	
126-98-7	Methacrylonitrile	0.32	1.62	ND	0.89	4.46	ND	ND
141-78-6	Ethyl acetate	0.28	1.38	ND	0.99	4.96	ND	ND
74-97-5	Bromochloromethane	0.17	0.84	ND	0.89	4.43	ND	ND
109-99-9	Tetrahydrofuran	0.39	1.97	ND	1.16	5.80	ND	ND
78-83-1	Isobutyl alcohol	0.52	2.60	ND	1.57	7.87	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.35	1.76	ND	1.40	6.98	ND	ND
594-20-7	2,2-Dichloropropane	0.28	1.40	ND	1.29	6.48	ND	ND
67-66-3	Chloroform	0.35	1.74	ND	1.70	8.51	ND	ND
71-55-6	1,1,1-Trichloroethane	0.35	1.74	ND	1.90	9.51	ND	ND
107-06-2	1,2-Dichloroethane	0.35	1.76	ND	1.43	7.13	ND	ND

563-58-6	1,1-Dichloropropene	0.21	1.04	ND	0.94	4.70	ND	ND
110-82-7	Cyclohexane	0.24	1.21	ND	0.83	4.16	ND	ND
71-43-2	Benzene	0.70	1.76	ND	2.25	5.62	ND	ND
56-23-5	Carbon tetrachloride	0.35	1.74	ND	2.19	10.97	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.17	0.86	ND	0.80	4.01	ND	ND
142-82-5	n-Heptane	0.19	0.95	ND	0.78	3.91	ND	ND
78-87-5	1,2-Dichloropropane	0.35	1.76	ND	1.63	8.14	ND	ND
123-91-1	1,4 Dioxane	0.64	6.43	ND	2.32	23.16	ND	ND
74-95-3	Dibromomethane	0.12	0.59	ND	0.84	4.20	ND	ND
79-01-6	Trichloroethene	0.35	1.76	ND	1.89	9.46	ND	ND
75-27-4	Bromodichloromethane	0.13	0.63	ND	0.85	4.24	ND	ND
80-62-6	Methyl methacrylate	0.21	1.06	ND	0.87	4.35	ND	ND
108-10-1	4-Methyl-2-pentanone	0.24	1.19	ND	0.98	4.88	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.36	1.81	ND	1.64	8.22	ND	ND
108-88-3	Toluene	0.70	1.76	4.47	2.65	6.63	16.85	
10061-02-6	trans-1,3-Dichloropropene	0.36	1.78	ND	1.61	8.07	ND	ND
79-00-5	1,1,2-Trichloroethane	0.35	1.74	0.39	1.90	9.51	2.14	J
97-63-2	Ethyl methacrylate	0.19	0.94	ND	0.88	4.39	ND	ND
591-78-6	2-Hexanone	0.22	1.12	ND	0.91	4.58	ND	ND
142-28-9	1,3-Dichloropropane	0.21	1.04	ND	0.96	4.79	ND	ND
111-65-9	Octane	0.17	0.86	ND	0.80	4.01	ND	ND
124-48-1	Dibromochloromethane	0.13	0.63	ND	1.07	5.36	ND	ND
106-93-4	1,2-Dibromoethane	0.36	1.78	ND	2.73	13.66	ND	ND
127-18-4	Tetrachloroethene	0.35	1.74	ND	2.36	11.82	ND	ND
108-90-7	Chlorobenzene	0.35	1.74	ND	1.61	8.03	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.13	0.65	ND	0.89	4.48	ND	ND
100-41-4	Ethylbenzene	0.36	1.78	ND	1.54	7.72	ND	ND
1330-20-7	m,p-Xylenes	0.70	3.52	ND	3.06	15.29	ND	ND
111-84-2	Nonane	0.15	0.75	ND	0.79	3.93	ND	ND
100-42-5	Styrene	0.35	1.76	ND	1.50	7.50	ND	ND
75-25-2	Bromoform	0.08	0.42	ND	0.87	4.38	ND	ND
95-47-6	o-Xylene	0.35	1.74	ND	1.51	7.57	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.35	3.49	ND	2.39	23.93	ND	ND
96-18-4	1,2,3-Trichloropropane	0.15	0.78	ND	0.93	4.68	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.21	1.06	ND	1.08	5.42	ND	ND
95-49-8	2-Chlorotoluene	0.17	0.84	ND	0.87	4.34	ND	ND
106-43-4	4-Chlorotoluene	0.16	0.82	ND	0.85	4.25	ND	ND
103-65-1	n-Propylbenzene	0.24	1.18	ND	1.16	5.80	ND	ND
98-82-8	Isopropylbenzene	0.24	1.20	ND	1.18	5.88	ND	ND
622-96-8	4-Ethyltoluene	0.19	0.97	ND	0.95	4.77	ND	ND
108-67-8	1,3,5-Trimethylbenzene	0.36	1.81	ND	1.78	8.91	ND	ND
124-18-5	Decane	0.16	0.80	0.21	0.93	4.64	1.23	J
98-06-6	tert-butyl benzene	0.21	1.04	ND	1.14	5.72	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.35	1.74	ND	1.71	8.57	ND	ND
538-93-2	i-Butylbenzene	0.21	1.04	ND	1.14	5.72	ND	ND
135-98-8	sec-butylbenzene	0.22	1.11	ND	1.22	6.10	ND	ND
541-73-1	1,3-Dichlorobenzene	0.70	3.49	ND	4.19	20.96	ND	ND
99-87-6	Isopropyltoluene	0.22	0.56	ND	1.20	3.06	ND	ND
100-44-7	Benzyl chloride	0.40	2.01	ND	2.08	10.41	ND	ND
106-46-7	1,4-Dichlorobenzene	0.70	3.49	ND	4.19	20.96	ND	ND
104-51-8	n-Butylbenzene	0.21	0.56	ND	1.13	3.06	ND	ND
95-50-1	1,2-Dichlorobenzene	0.68	3.42	ND	4.11	20.55	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.46	2.29	ND	4.43	22.13	ND	ND
78-00-2	Tetraethyl lead	0.16	0.82	ND	2.17	10.85	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.41	3.52	ND	10.45	26.12	ND	ND

91-20-3	Naphthalene	0.30	0.75	ND	1.58	3.94	ND	ND
87-68-3	Hexachlorobutadiene	0.70	3.52	ND	7.51	37.56	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	10.19	102	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO15 **Laboratory ID: 30**

Description: 2372-2-14 **Date Sampled:** 11/04/11 **Time:** 13:52
Can/Tube#: 310 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 16:15
Air Volume: 500 ml **Can Dilution Factor:** 1.25

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.26	0.66	0.70	1.30	3.25	3.46	
74-87-3	Chloromethane	0.26	0.64	0.83	0.53	1.32	1.71	
76-14-2	Freon 114	0.26	0.65	ND	1.82	4.54	ND	ND
75-01-4	Vinyl chloride	0.26	0.65	ND	0.66	1.66	ND	ND
106-99-0	1,3-Butadiene	0.27	0.67	ND	0.59	1.48	ND	ND
74-83-9	Bromomethane	0.26	0.65	ND	1.01	2.52	ND	ND
75-00-3	Chloroethane	0.26	0.65	ND	0.69	1.71	ND	ND
64-17-5	Ethanol	0.86	2.15	15.29	1.62	4.05	28.82	
75-69-4	Trichlorofluoromethane	0.26	0.65	0.43	1.46	3.65	2.41	J
67-64-1	Acetone	0.57	0.71	18.08	1.34	1.68	42.93	B
67-63-0	2-propanol	0.66	3.28	21.17	1.61	8.05	52.00	
75-65-0	t-Butanol	0.19	0.47	2.66	0.57	1.42	8.05	
4227-95-6	Methyl iodide	0.08	0.19	ND	0.44	1.10	ND	ND
75-35-4	1,1-Dichloroethene	0.51	1.27	ND	2.00	5.01	ND	ND
107-13-1	Acrylonitrile	0.29	0.73	ND	0.63	1.57	ND	ND
76-13-1	Freon 113	0.26	0.64	ND	1.95	4.88	ND	ND
107-05-1	Allyl chloride	0.22	0.56	0.81	0.69	1.76	2.52	
75-09-2	Dichloromethane	0.26	0.65	1.24	0.90	2.26	4.30	
75-15-0	Carbon disulfide	0.21	0.54	ND	0.66	1.66	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.17	0.42	ND	0.66	1.64	ND	ND
1634-04-4	Methyl tert butyl ether	0.17	0.43	ND	0.61	1.53	ND	ND
107-12-0	Propionitrile	0.24	0.60	ND	0.53	1.34	ND	ND
75-34-3	1,1-Dichloroethane	0.25	0.63	ND	1.02	2.56	ND	ND
108-05-4	Vinyl acetate	0.20	0.51	0.69	0.71	1.78	2.41	
78-93-3	2-Butanone	0.23	0.59	2.02	0.69	1.72	5.95	
108-20-3	Diisopropyl ether	0.16	0.39	ND	0.66	1.64	ND	ND
110-54-3	Hexane	0.17	0.43	5.33	0.60	1.50	18.79	
126-98-7	Methacrylonitrile	0.24	0.60	ND	0.65	1.63	ND	ND
141-78-6	Ethyl acetate	0.20	0.51	3.56	0.73	1.82	12.84	
74-97-5	Bromochloromethane	0.12	0.31	ND	0.65	1.63	ND	ND
109-99-9	Tetrahydrofuran	0.29	0.72	0.55	0.85	2.12	1.61	J
78-83-1	Isobutyl alcohol	0.38	1.90	ND	1.15	5.76	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.26	0.65	ND	1.02	2.55	ND	ND
594-20-7	2,2-Dichloropropane	0.20	0.51	ND	0.95	2.37	ND	ND
67-66-3	Chloroform	0.26	0.64	ND	1.24	3.11	ND	ND
71-55-6	1,1,1-Trichloroethane	0.26	0.64	ND	1.39	3.48	ND	ND
107-06-2	1,2-Dichloroethane	0.26	0.65	ND	1.04	2.61	ND	ND

563-58-6	1,1-Dichloropropene	0.15	0.38	ND	0.69	1.72	ND	ND
110-82-7	Cyclohexane	0.18	0.44	1.78	0.61	1.51	6.14	
71-43-2	Benzene	0.52	0.65	0.70	1.64	2.06	2.25	
56-23-5	Carbon tetrachloride	0.26	0.64	ND	1.60	4.01	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.13	0.31	0.17	0.58	1.46	0.78	J
142-82-5	n-Heptane	0.14	0.35	0.47	0.57	1.43	1.94	
78-87-5	1,2-Dichloropropane	0.26	0.65	ND	1.19	2.98	ND	ND
123-91-1	1,4 Dioxane	0.47	4.70	0.51	1.69	16.93	1.84	J
74-95-3	Dibromomethane	0.09	0.22	ND	0.61	1.53	ND	ND
79-01-6	Trichloroethene	0.26	0.65	ND	1.38	3.46	ND	ND
75-27-4	Bromodichloromethane	0.09	0.23	ND	0.62	1.56	ND	ND
80-62-6	Methyl methacrylate	0.16	0.39	ND	0.64	1.60	ND	ND
108-10-1	4-Methyl-2-pentanone	0.17	0.44	ND	0.71	1.78	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.27	0.66	ND	1.20	3.01	ND	ND
108-88-3	Toluene	0.52	0.65	7.29	1.94	2.43	27.43	
10061-02-6	trans-1,3-Dichloropropene	0.26	0.65	ND	1.18	2.95	ND	ND
79-00-5	1,1,2-Trichloroethane	0.26	0.64	0.51	1.39	3.48	2.77	J
97-63-2	Ethyl methacrylate	0.14	0.34	ND	0.64	1.60	ND	ND
591-78-6	2-Hexanone	0.16	0.41	ND	0.67	1.67	ND	ND
142-28-9	1,3-Dichloropropane	0.15	0.38	ND	0.70	1.74	ND	ND
111-65-9	Octane	0.13	0.32	1.74	0.59	1.47	8.11	
124-48-1	Dibromochloromethane	0.09	0.23	ND	0.78	1.96	ND	ND
106-93-4	1,2-Dibromoethane	0.26	0.65	ND	2.00	4.99	ND	ND
127-18-4	Tetrachloroethene	0.26	0.64	0.53	1.73	4.32	3.58	J
108-90-7	Chlorobenzene	0.26	0.64	ND	1.17	2.93	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.24	ND	0.65	1.63	ND	ND
100-41-4	Ethylbenzene	0.26	0.65	0.29	1.13	2.82	1.25	J
1330-20-7	m,p-Xylenes	0.52	1.29	0.70	2.24	5.59	3.06	J
111-84-2	Nonane	0.11	0.28	0.18	0.57	1.44	0.97	J
100-42-5	Styrene	0.26	0.65	0.66	1.10	2.75	2.83	
75-25-2	Bromoform	0.06	0.16	ND	0.64	1.60	ND	ND
95-47-6	o-Xylene	0.26	0.64	ND	1.11	2.77	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.26	2.55	ND	1.75	17.49	ND	ND
96-18-4	1,2,3-Trichloropropane	0.11	0.28	ND	0.68	1.70	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.16	0.39	ND	0.79	1.98	ND	ND
95-49-8	2-Chlorotoluene	0.12	0.31	ND	0.63	1.59	ND	ND
106-43-4	4-Chlorotoluene	0.12	0.30	ND	0.62	1.55	ND	ND
103-65-1	n-Propylbenzene	0.17	0.43	ND	0.85	2.13	ND	ND
98-82-8	Isopropylbenzene	0.18	0.44	0.35	0.86	2.15	1.73	J
622-96-8	4-Ethyltoluene	0.14	0.36	0.44	0.70	1.74	2.14	
108-67-8	1,3,5-Trimethylbenzene	0.27	0.66	ND	1.30	3.26	ND	ND
124-18-5	Decane	0.12	0.29	2.96	0.68	1.70	17.20	
98-06-6	tert-butyl benzene	0.15	0.38	ND	0.84	2.10	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.64	ND	1.25	3.13	ND	ND
538-93-2	i-Butylbenzene	0.15	0.38	ND	0.84	2.10	ND	ND
135-98-8	sec-butylbenzene	0.16	0.41	ND	0.89	2.24	ND	ND
541-73-1	1,3-Dichlorobenzene	0.51	2.55	ND	3.06	15.32	ND	ND
99-87-6	Isopropyltoluene	0.16	0.41	ND	0.88	2.24	ND	ND
100-44-7	Benzyl chloride	0.29	1.47	ND	1.52	7.61	ND	ND
106-46-7	1,4-Dichlorobenzene	0.51	2.55	ND	3.06	15.32	ND	ND
104-51-8	n-Butylbenzene	0.15	0.41	ND	0.82	2.24	ND	ND
95-50-1	1,2-Dichlorobenzene	0.50	2.50	ND	3.00	15.02	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.34	1.68	ND	3.24	16.18	ND	ND
78-00-2	Tetraethyl lead	0.12	0.60	ND	1.59	7.93	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.03	2.58	ND	7.64	19.09	ND	ND

91-20-3	Naphthalene	0.22	0.55	0.26	1.15	2.88	1.35	J
87-68-3	Hexachlorobutadiene	0.52	2.58	ND	5.49	27.45	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	8.67	87	70	130	

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG:** 211536
Analytical Method: TO15 **Laboratory ID:** 31

Description: 2372-2-15 **Date Sampled:** 11/04/11 **Time:** 13:50
Can/Tube#: 343 **Date Received:** 11/09/11 **Time:** 11:45
QC_Batch: 111911-MSC **Date Analyzed:** 11/19/11 **Time:** 17:15
Air Volume: 500 ml **Can Dilution Factor:** 1.27

CAS#	Compound	MDL PPBV	RL PPBV	Amount PPBV	MDL UG/M3	RL UG/M3	Amount UG/M3	Flag
75-71-8	Dichlorodifluoromethane	0.27	0.67	0.54	1.32	3.30	2.65	J
74-87-3	Chloromethane	0.26	0.65	0.70	0.53	1.34	1.44	
76-14-2	Freon 114	0.26	0.66	ND	1.85	4.61	ND	ND
75-01-4	Vinyl chloride	0.26	0.66	ND	0.67	1.69	ND	ND
106-99-0	1,3-Butadiene	0.27	0.68	ND	0.60	1.51	ND	ND
74-83-9	Bromomethane	0.26	0.66	ND	1.02	2.56	ND	ND
75-00-3	Chloroethane	0.26	0.66	ND	0.70	1.74	ND	ND
64-17-5	Ethanol	0.87	2.18	8.26	1.65	4.12	15.56	
75-69-4	Trichlorofluoromethane	0.26	0.66	0.37	1.48	3.71	2.09	J
67-64-1	Acetone	0.58	0.72	33.43	1.37	1.71	79.41	B
67-63-0	2-propanol	0.67	3.33	10.13	1.63	8.17	24.88	
75-65-0	t-Butanol	0.19	0.48	0.59	0.58	1.45	1.79	
4227-95-6	Methyl iodide	0.08	0.19	ND	0.45	1.11	ND	ND
75-35-4	1,1-Dichloroethene	0.51	1.29	ND	2.03	5.09	ND	ND
107-13-1	Acrylonitrile	0.29	0.74	0.34	0.64	1.60	0.73	J
76-13-1	Freon 113	0.26	0.65	ND	1.98	4.96	ND	ND
107-05-1	Allyl chloride	0.22	0.57	ND	0.70	1.79	ND	ND
75-09-2	Dichloromethane	0.26	0.66	0.42	0.92	2.29	1.45	J
75-15-0	Carbon disulfide	0.22	0.54	ND	0.68	1.69	ND	ND
156-60-5	trans-1,2-Dichloroethene	0.17	0.42	ND	0.67	1.67	ND	ND
1634-04-4	Methyl tert butyl ether	0.17	0.43	ND	0.62	1.56	ND	ND
107-12-0	Propionitrile	0.24	0.60	0.43	0.54	1.36	0.97	J
75-34-3	1,1-Dichloroethane	0.26	0.64	ND	1.04	2.60	ND	ND
108-05-4	Vinyl acetate	0.21	0.51	0.50	0.72	1.81	1.77	J
78-93-3	2-Butanone	0.24	0.59	1.80	0.70	1.75	5.32	
108-20-3	Diisopropyl ether	0.16	0.40	ND	0.67	1.67	ND	ND
110-54-3	Hexane	0.17	0.43	4.22	0.61	1.52	14.88	
126-98-7	Methacrylonitrile	0.24	0.60	ND	0.66	1.66	ND	ND
141-78-6	Ethyl acetate	0.20	0.51	1.42	0.74	1.85	5.11	
74-97-5	Bromochloromethane	0.12	0.31	ND	0.66	1.65	ND	ND
109-99-9	Tetrahydrofuran	0.29	0.73	0.48	0.86	2.16	1.42	J
78-83-1	Isobutyl alcohol	0.39	1.93	ND	1.17	5.85	ND	ND
156-59-2	cis-1,2-Dichloroethene	0.26	0.66	ND	1.04	2.60	ND	ND
594-20-7	2,2-Dichloropropane	0.21	0.52	ND	0.96	2.41	ND	ND
67-66-3	Chloroform	0.26	0.65	ND	1.26	3.16	ND	ND
71-55-6	1,1,1-Trichloroethane	0.26	0.65	ND	1.41	3.53	ND	ND
107-06-2	1,2-Dichloroethane	0.26	0.66	ND	1.06	2.65	ND	ND

563-58-6	1,1-Dichloropropene	0.15	0.39	ND	0.70	1.75	ND	ND
110-82-7	Cyclohexane	0.18	0.45	0.65	0.62	1.54	2.24	
71-43-2	Benzene	0.52	0.66	ND	1.67	2.09	ND	ND
56-23-5	Carbon tetrachloride	0.26	0.65	ND	1.63	4.07	ND	ND
540-84-1	2,2,4-Trimethylpentane	0.13	0.32	ND	0.59	1.48	ND	ND
142-82-5	n-Heptane	0.14	0.36	0.24	0.58	1.46	0.98	J
78-87-5	1,2-Dichloropropane	0.26	0.66	ND	1.21	3.03	ND	ND
123-91-1	1,4 Dioxane	0.48	4.78	ND	1.72	17.20	ND	ND
74-95-3	Dibromomethane	0.09	0.22	ND	0.62	1.55	ND	ND
79-01-6	Trichloroethene	0.26	0.66	ND	1.41	3.52	ND	ND
75-27-4	Bromodichloromethane	0.09	0.24	ND	0.63	1.58	ND	ND
80-62-6	Methyl methacrylate	0.16	0.40	ND	0.65	1.62	ND	ND
108-10-1	4-Methyl-2-pentanone	0.18	0.44	ND	0.72	1.81	ND	ND
10061-01-5	cis-1,3-Dichloropropene	0.27	0.67	ND	1.22	3.05	ND	ND
108-88-3	Toluene	0.52	0.66	2.22	1.97	2.47	8.38	
10061-02-6	trans-1,3-Dichloropropene	0.26	0.66	ND	1.20	3.00	ND	ND
79-00-5	1,1,2-Trichloroethane	0.26	0.65	ND	1.41	3.53	ND	ND
97-63-2	Ethyl methacrylate	0.14	0.35	ND	0.65	1.62	ND	ND
591-78-6	2-Hexanone	0.17	0.41	0.27	0.68	1.70	1.12	J
142-28-9	1,3-Dichloropropane	0.15	0.38	ND	0.71	1.77	ND	ND
111-65-9	Octane	0.13	0.32	0.84	0.60	1.49	3.91	
124-48-1	Dibromochloromethane	0.09	0.23	ND	0.79	1.99	ND	ND
106-93-4	1,2-Dibromoethane	0.26	0.66	ND	2.03	5.07	ND	ND
127-18-4	Tetrachloroethene	0.26	0.65	ND	1.76	4.39	ND	ND
108-90-7	Chlorobenzene	0.26	0.65	ND	1.19	2.98	ND	ND
630-20-6	1,1,1,2-Tetrachloroethane	0.10	0.24	ND	0.66	1.66	ND	ND
100-41-4	Ethylbenzene	0.26	0.66	ND	1.15	2.87	ND	ND
1330-20-7	m,p-Xylenes	0.52	1.31	0.59	2.27	5.68	2.58	J
111-84-2	Nonane	0.11	0.28	ND	0.58	1.47	ND	ND
100-42-5	Styrene	0.26	0.66	ND	1.11	2.79	ND	ND
75-25-2	Bromoform	0.06	0.16	ND	0.65	1.63	ND	ND
95-47-6	o-Xylene	0.26	0.65	ND	1.12	2.81	ND	ND
79-34-5	1,1,2,2-Tetrachloroethane	0.26	2.59	ND	1.78	17.77	ND	ND
96-18-4	1,2,3-Trichloropropane	0.12	0.29	ND	0.69	1.73	ND	ND
110-57-6	t-1,4-Dichloro-2-butene	0.16	0.39	ND	0.80	2.01	ND	ND
95-49-8	2-Chlorotoluene	0.12	0.31	ND	0.64	1.62	ND	ND
106-43-4	4-Chlorotoluene	0.12	0.30	ND	0.63	1.58	ND	ND
103-65-1	n-Propylbenzene	0.18	0.44	ND	0.86	2.16	ND	ND
98-82-8	Isopropylbenzene	0.18	0.44	0.25	0.87	2.18	1.25	J
622-96-8	4-Ethyltoluene	0.14	0.36	0.21	0.71	1.77	1.04	J
108-67-8	1,3,5-Trimethylbenzene	0.27	0.67	ND	1.32	3.31	ND	ND
124-18-5	Decane	0.12	0.30	1.90	0.69	1.73	11.08	
98-06-6	tert-butyl benzene	0.15	0.39	ND	0.85	2.13	ND	ND
95-63-6	1,2,4-Trimethylbenzene	0.26	0.65	ND	1.27	3.18	ND	ND
538-93-2	i-Butylbenzene	0.15	0.39	ND	0.85	2.13	ND	ND
135-98-8	sec-butylbenzene	0.17	0.41	ND	0.91	2.27	ND	ND
541-73-1	1,3-Dichlorobenzene	0.52	2.59	ND	3.11	15.57	ND	ND
99-87-6	Isopropyltoluene	0.16	0.41	ND	0.89	2.27	ND	ND
100-44-7	Benzyl chloride	0.30	1.49	ND	1.55	7.73	ND	ND
106-46-7	1,4-Dichlorobenzene	0.52	2.59	ND	3.11	15.57	ND	ND
104-51-8	n-Butylbenzene	0.15	0.41	ND	0.84	2.27	ND	ND
95-50-1	1,2-Dichlorobenzene	0.51	2.54	ND	3.05	15.26	ND	ND
96-12-8	1,2-Dibromo-3-chloropropane	0.34	1.70	ND	3.29	16.44	ND	ND
78-00-2	Tetraethyl lead	0.12	0.61	ND	1.61	8.06	ND	ND
120-82-1	1,2,4-Trichlorobenzene	1.05	2.62	ND	7.76	19.40	ND	ND

91-20-3	Naphthalene	0.22	0.56	ND	1.17	2.93	ND	ND
87-68-3	Hexachlorobutadiene	0.52	2.62	ND	5.58	27.89	ND	ND

	Surrogate Recovery	Spike ppbV	Measured ppbV	% Rec.	QC LCL	Limits UCL	Flag * = Out
2037-26-5	Toluene-d8	10.00	9.43	94	70	130	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 01

Description 2372-21-1
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.2	2-methyl propane	1.3	
5.6	Pentane	29.0	
8.8	Butanal	0.7	
12.4	Pentanal	1.1	
14.7	Methyl heptane	0.2	
17.4	Nonene	5.3	
18.4	3-Heptanone	2.5	
20.7	Trimethyloctane	8.6	
22.3	Trimethyloctane	4.1	
22.9	Methyl decane	37.9	
23.3	Trimethyl nonane	6.6	
23.4	Methyl decane	30.1	
23.6	Methyl decane	23.1	
23.9	Pentadecanol	4.7	
24.0	Dimethyl undecane	16.4	
24.4	Propyl decane	7.8	
25.5	Methyl dodecanol	1.4	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 02

Description 2372-21-2
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
9.1	Methyl-heptane	2.2	
11.0	Octane	8.6	
14.5	Trimethyl-cyclohexane	2.8	
16.5	Dimethyl-heptane	3.2	
18.9	Ethyl-hexanal	2.3	
19.7	Methyl-octane	2.6	
21.4	Trimethyl-decane	10.9	
22.0	Trimethyl-decane	27.4	
23.3	Methyl-undecane	10.5	
23.7	Dimethyl-undecane	8.8	
24.0	Nonanal	1.4	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 03

Description 2372-21-3
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
3.7	Tetrafluoro-ethane	28.8	
17.2	Trimethyl-cyclohexane	2.5	
17.7	Hexyl pentyl ether	9.1	
18.6	Methyl-propyl-cyclopentane	5.5	
19.3	Dimethyl-hexane	4.4	
19.5	Methyl-nonane	4.3	
19.8	Methyl-nonane	19.1	
20.1	Propyl-cyclohexane	33.9	
20.4	Dimethyl-undecane	10.2	
20.6	Dimethyl-undecane	14.7	
20.7	Methyl-nonane	17.4	
21.6	Ethyl-methyl-benzene	18.1	
22.1	Methyl-dodecane	8.6	
22.9	Dimethyl-undecane	43.0	
23.2	Dimethyl-nonane	6.5	
23.5	Trimethyl-hexane	27.2	
23.5	Dimethyl-decane	21.7	
24.0	Dimethyl-undecane	15.78	
24.3	Tridecane	17.62	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 04

Description 2372-21-4
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
17.4	Methyl-heptene	3.5	
20.7	Trimethyl-octane	5.8	
22.9	Methyl-decane	22.8	
23.5	Tetramethyl-pentane	17.7	
23.5	Dimethyl-octane	12.6	
24.0	Dimethyl-undecane	8.9	
24.4	Butyl-nonane	4.9	
24.5	Dimethyl-undecane	4.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **05**

Description 2372-21-5
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.5	2-Methyl butane	38.1	
6.1	Pentane	160.1	
17.4	Methyl-heptene	5.6	
20.7	Trimethyl-hexane	8.4	
22.2	Trimethyl-octane	3.8	
22.9	Dimethyl-nonane	32.0	
23.5	Trimethyl-decane	22.3	
23.5	Trimethyl-hexane	18.5	
24.0	Trimethyl-decane	11.8	
24.4	Methyl-undecane	5.4	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 06

Description 2372-21-6
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
8.8	Butanal	0.6	
17.4	Tetramethyl-cyclopentane	4.6	
20.7	Trimethyl-octane	7.8	
22.9	Dimethyl-nonane	33.6	
23.3	Dimethyl-nonane	6.0	
23.5	Trimethyl-decane	27.4	
23.6	Trimethyl-octane	21.8	
24.0	Methyl-propyl-nonane	15.4	
24.4	Dimethyl-nonane	7.2	
24.5	Methyl-undecane	7.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 07

Description 2372-21-7
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.6	Pentane	28.7	
17.4	Methyl-Heptene	5.1	
20.7	Trimethyl-heptane	9.0	
23.0	Methyl-decane	37.3	
23.3	Methyl-nonane	5.9	
23.5	Methyl-nonane	27.6	
23.6	Dimethyl-heptane	20.5	
24.0	Trimethyl-decane	14.4	
24.4	Methyl-propyl-nonane	6.6	
24.6	Trimethyl-octane	4.1	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds **SDG: 211536**
Analytical Method: TIC **Laboratory Number: 08**

Description 2372-21-8
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.6	Penatane	6.5	
17.4	Ethyl-heptene	4.6	
20.7	Trimethyl-heptane	14.3	
22.3	Trimethyl-octane	4.6	
23.0	Methyl-nonane	35.7	
23.5	Trimethyl-hexane	23.7	
23.6	Trimethyl-hexane	15.8	
24.0	Methyl-propyl-nonane	9.8	
24.6	Ethyl-methyl-octane	3.4	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 09

Description 2372-21-9
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.4	Acetaldehyde	2.0	
6.1	Pentane	19.5	
17.4	Methyl-heptene	9.8	
20.7	Trimethyl-hexane	15.4	
22.2	Trimethyl-pentane	6.6	
23.3	Dimethyl-nonane	8.1	
23.5	Ethyl-tetramethy-heptane	36.1	
23.5	Dimethyl-octane	27.3	
24.0	Methyl-propyl-nonane	18.0	
24.4	Dimethyl-nonane	7.7	
24.5	Ethyl-methyl-octane	6.6	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 10

Description 2372-21-10
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.4	Acetaldehyde	3.3	
6.1	Pentane	20.5	
8.8	Butanal	0.5	
17.4	Methyl-heptene	6.7	
20.7	Trimethyl-pentane	10.3	
22.2	Trimethyl-hexane	4.4	
22.9	Methyl-nonane	37.8	
23.5	Trimethyl-hexane	27.7	
23.5	Trimethyl-hexane	21.8	
24.0	Methyl-propyl-nonane	14.4	
24.4	Dimethyl-nonane	6.5	
24.5	Ethyl-methyl-octane	6.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 11

Description 2372-21-11
QC_Batch: 111811-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.3	Acetaldehyde	1.7	
5.6	Pentane	4.0	
6.1	Ethyl-oxirane	16.9	
12.4	Pentanal	0.8	
17.2	Tetramethyl-cyclobutanone	4.5	
17.4	Tetramethyl-cyclopentane	14.2	
20.3	Pinene-alpha	1.3	
22.2	Trimethyl-octane	7.7	
22.9	Dimethyl-nonane	82.6	
23.5	Trimethyl-octane	60.6	
23.5	Trimethyl-octane	50.8	
24.0	Trimethyl-heptane	33.6	
24.4	Dimethyl-undecane	13.2	
24.5	Ethyl-methyl-octane	11.4	
26.2	Dimethyl-undecane	4.9	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 12

Description 2372-21-12
QC_Batch: 111911-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
6.1	Butanone	4.7	
12.4	Pentanal	0.9	
16.9	Nonanol	1.9	
17.4	Methyl-heptene	7.1	
20.3	Pinene-alpha	0.9	
20.7	Trimethyl-octane	11.2	
22.9	Dimethyl-nonane	46.6	
23.5	Trimethyl-octane	35.9	
23.5	Dimethyl-decane	26.4	
24.0	Methyl-propyl-nonane	18.8	
24.5	Trimethyl-octane	9.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 13

Description 2372-21-13
QC_Batch: 111911-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.4	Acetaldehyde	3.5	
8.8	Butanal	1.4	
12.4	Pentanal	1.6	
17.4	Octen-one	3.9	
18.4	Heptanone	2.1	
20.3	Pinene-alpha	1.1	
21.5	Propyl ester Butanoic acid	1.1	
22.9	Dimethyl-nonane	31.4	
23.5	Dimethyl-decane	24.9	
23.6	Trimethyl-octane	17.9	
24.0	Methyl-propyl-nonane	14.1	
24.5	Methyl-decane	6.4	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 14

Description 2372-21-14
QC_Batch: 111911-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.6	Pentane	20.8	
8.8	Butanal	0.6	
17.4	Methyl-heptene	5.2	
18.4	Heptanone	1.3	
20.3	Pinene-alpha	0.6	
20.7	Trimethyl-heptane	8.4	
23.0	Methyl-decane	31.7	
23.5	Trimethyl-decane	24.0	
23.6	Trimethyl-hexane	18.4	
24.0	Trimethyl-octane	12.3	
24.4	Methyl-undecane	5.8	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 15

Description 2372-21-15
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.2	Butane	15.5	
5.7	Pentane	95.8	
6.0	(E)-pentadiene	0.9	
10.7	Propyl-furan	0.7	
15.6	Butyl ester acetic acid	0.6	
19.7	Pinene-alpha	0.4	
22.3	Dimethyl-hexane	6.3	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 16

Description 2372-21-16
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
16.8	Trimethyl-cyclohexane	2.6	
19.7	Pinene-alpha	0.7	
21.7	Methyl-octane	9.4	
22.4	Dimethyl-undecane	26.9	
22.9	Dimethyl-heptane	20.4	
23.0	Trimethyl-hexane	16.3	
23.4	Methyl-undecane	10.3	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 17

Description 2372-21-17
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.2	Methyl-butane	4.6	
5.8	Pentane	15.0	
16.8	Methyl-heptene	2.3	
17.2	Heptadecanol	0.7	
19.7	Phellandrene-alpha	0.5	
22.3	Dimethyl-hexane	23.3	
22.9	Dimethyl-heptane	17.0	
23.0	Dimethyl-heptane	15.4	
23.4	Ethyl-methyl-octane	9.8	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 18

Description 2372-2-2
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.3	Methyl-butane	0.7	
5.8	Pentane	4.5	
16.8	Methyl-hexanol	6.5	
19.7	Pinene-alpha	0.5	
19.9	Ethyl-hexanal	0.7	
21.8	Trimethyl-octane	23.4	
22.3	Dimethyl-hexane	38.8	
22.9	Dimethyl-heptane	29.2	
23.0	Ethyl-tetramethyl-heptane	26.6	
23.8	Dimethyl-nonane	7.9	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 19

Description 2372-2-3
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.3	Pentane	32.7	
8.4	Butanal	1.1	
11.9	Methyl-butanal	2.3	
12.4	Propyl ester acetic acid	0.7	
16.6	Heptenal	0.6	
17.1	Ethyl-hexenal	0.6	
17.8	Heptanone	0.4	
19.7	Pinene-alpha	0.7	
21.7	Chloromethyl-heptane	16.0	
22.3	Dimethyl-undecane	21.3	
22.9	Dimethyl-heptane	16.0	
23.4	Ethyl-methyl-octane	9.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **20**

Description 2372-2-4
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.2	Methyl-butane	52.6	
5.7	Pentane	161.4	
16.6	Nonenal	0.8	
16.8	Pentene	3.7	
17.2	Ethyl-pentenal	1.0	
22.3	Dimethyl-hexane	24.1	
22.9	Dimethyl-heptane	18.2	
23.4	Propyl-heptanol	9.6	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 21

Description 2372-2-5
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.3	Methyl-butane	75.3	
5.8	Pentane	128.0	
19.7	Pinene-alpha	0.6	
22.3	Methyl-propyl-nonane	15.2	
22.9	Dimethyl-heptane	10.7	
23.0	Dimethyl-heptane	9.1	
23.4	Dimethyl-undecane	5.5	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 22

Description 2372-2-6
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
11.8	Pentanal	0.6	
16.6	Butenal	0.7	
22.3	Dimethyl-hexane	21.6	
22.9	Diemthyl-heptane	14.7	
23.0	Dimethyl-undecane	11.3	
23.4	Dimethyl-undecane	6.6	
23.8	Diemthyl-nonane	2.6	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 23

Description 2372-2-7
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.8	Pentane	2.2	
23.0	Trimethyl-octane	3.5	
23.4	Ethyl-methyl-heptane	2.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 24

Description 2372-2-8
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
16.3	Furancarboxaldehyde	0.5	
22.3	Methyl-decane	6.3	
22.9	Dimethyl-heptane	4.7	
23.4	Trimethyl-hexane	3.1	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 25

Description 2372-2-9
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
11.9	Pentanal	0.6	
13.0	Hexenal	0.5	
16.6	Decenal	0.6	
17.8	Heptanone	0.5	
19.7	Pinene-alpha	0.7	
22.3	Methyl-propyl-nonane	24.6	
22.9	Dimethyl-heptane	19.1	
23.3	Octadecenal	3.3	
23.4	Dimethyl-undecane	11.0	
23.8	Dimethyl-nonane	5.1	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **26**

Description 2372-2-10
QC_Batch: 111811-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
17.1	Nonenal	1.1	
22.4	Dimethyl-hexane	29.0	
22.9	Dimethyl-heptane	19.5	
23.0	Dimethyl-heptane	16.0	
23.4	Methyl-undecane	10.3	
23.8	Dimethyl-nonane	4.3	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **27**

Description 2372-2-11
QC_Batch: 111911-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.0	Acetaldehyde	2.1	
5.2	Methyl-Butane	17.9	
5.7	Pentane	81.0	
16.4	Hexene	0.9	
16.8	Methyl-heptene	2.8	
22.3	Methyl-propyl-nonane	9.7	
22.9	Tetramethyl-hexane	6.1	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 28

Description 2372-2-12
QC_Batch: 111911-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.0	Acetaldehyde	0.7	
5.2	Methyl-butane	7.8	
5.7	Pentane	35.5	
10.7	Heptene	0.6	
11.2	Heptadecanol	0.4	
22.4	Dimethyl-hexane	15.7	
22.9	Dimethyl-heptane	10.9	
23.0	Dimethyl-heptane	9.3	
23.4	Methyl-propyl-nonane	5.5	
23.8	Dimethyl-nonane	2.2	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **29**

Description 2372-2-13
QC_Batch: 111911-MSA

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
22.3	Dimethyl-undecane	1.0	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: TIC

SDG: 211536
Laboratory Number: 30

Description 2372-2-14
QC_Batch: 111911-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
4.4	Acetaldehyde	4.3	
5.6	Methyl-butane	70.9	
6.1	Pentane	206.4	
17.3	Methyl-heptene	2.4	
17.4	Methyl-heptene	7.1	
17.7	Methyl-heptene	1.2	
18.5	Heptanone	1.7	
20.3	Pinene-alpha	1.1	
20.5	Ethyl-hexanal	1.2	
20.7	Trimethyl-octane	10.2	
22.2	Methyl-cyclohexanol	2.5	
22.4	Trimethyl-decane	17.3	
23.0	Dimethyl-nonane	39.2	
23.2	Cineole	0.8	
24.0	Methyl-propyl-nonane	14.4	
24.4	Dimethyl-hexane	5.9	
24.6	Methyl-undecane	5.8	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 Modified Tentatively Identified Compounds
Analytical Method: **TIC**

SDG: **211536**
Laboratory Number: **31**

Description 2372-2-15
QC_Batch: 111911-MSC

Retention Time:	Probable Compound	Estimated Concentration ppbv	Comments
5.6	Methyl-butane	5.2	
5.6	Pentane	4.9	
16.9	Methyl-octene	1.5	
17.3	Tetramethyl-cyclobutanone	1.7	
17.4	Nonene	4.9	
18.5	Heptanone	3.0	
20.8	Trimethyl-hexane	7.3	
23.0	Methyl-decane	24.3	
23.5	Trimethyl-hexane	18.0	
23.6	Dimethyl-decane	12.3	
24.0	Methyl-propyl-nonane	8.5	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 01**

Description: 2372-21-1
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	2.5	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 02**

Description: 2372-21-2
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 03**

Description: 2372-21-3
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 04**

Description: 2372-21-4
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 05**

Description: 2372-21-5
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 06**

Description: 2372-21-6
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 07**

Description: 2372-21-7
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 08**

Description: 2372-21-8
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
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EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 09**

Description: 2372-21-9
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 10**

Description: 2372-21-10
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 11**

Description: 2372-21-11
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 12**

Description: 2372-21-12
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	4.7	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	1.9	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 13**

Description: 2372-21-13
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	2.1	
Octenols	1	ND	
Octanones	1	3.9	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: **MVOC** **Laboratory Number: 14**

Description: 2372-21-14
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	1.3	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 15**

Description: 2372-21-15
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 16**

Description: 2372-21-16
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 17**

Description: 2372-21-17
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 18**

Description: 2372-21-18
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 19**

Description: 2372-21-19
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 20**

Description: 2374-2-4
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	9.6	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 21**

Description: 2374-2-5
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 22**

Description: 2374-2-6
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 23**

Description: 2374-2-7
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 24**

Description: 2374-2-8
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 25**

Description: 2374-2-9
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 26**

Description: 2374-2-10
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

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Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 27**

Description: 2374-2-11
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 28**

Description: 2374-2-12
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 29**

Description: 2374-2-13
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 30**

Description: 2374-2-14
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	1.7	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Analytical Report

ENVIRONMENTAL
Analytical Service, Inc.

EPA TO-15 SIM Modified Microbial Volatile Organic Compounds (TIC) **SDG: 211536**
Analytical Method: MVOC **Laboratory Number: 31**

Description: 2374-2-15
Air Volume: 500 ml

Compound type	MDL ppbv	Concentration ppbv	Comments
Furans and methyl furans	1	ND	
T-amyl alcohol	1	ND	
Methyl propanols	1	ND	
Pentanols	1	ND	
Butanols and methyl butanols	1	ND	
Pentanones	1	ND	
Hexanones	1	ND	
Heptanones	1	ND	
Octenols	1	ND	
Octanones	1	ND	
2-Isopropyl-3-methoxypyrazine	1	ND	
2-methyl-isoborneol	1	ND	

Data Qualifiers, Abbreviations and Definitions

ENVIRONMENTAL
Analytical Service, Inc.

Qualifiers

*	See Case Narrative
B	This compound was detected in the blank above the Reporting Limit (RL)
D	This report was calculated from a secondary dilution factor
E	Compound exceeds the calibration range and is an estimated value
J	The amount reported is an estimated value because it is between the Reporting Limit (RL) and the Method Detection Limit (MDL)
F	Higher detection limit due to sample matrix
G	Higher detection limit due to limited sample size
Q	Compound secondary ion ratio qualifiers are outside the standard acceptance criteria
R	Compound secondary retention time (RT) is outside the acceptance criteria for the method
U	Compound is less than the Method Detection Limit (MDL)

Abbreviations

MDL Minimum Detection Limit – Instrument detection limit

The minimum detectable level (MDL) is the lowest concentration of a substance that can be measured with confidence. The MDL is calculated at the 99% confidence level from seven repetitive measurements on a sample whose concentration does not exceed 10 times the estimated MDL (Glasser et. al. 1981; Long and Winefordner, 1983). Generating an MDL study, a sample is prepared in the appropriate matrix with components near the estimated MDL, which is about 3 times the instrument noise level. This sample is run seven consecutive times and the standard deviation (S) is calculated. The MDL is determined using the following formula: MDL = 3.14*S

ND Not Detected – a reported limit
NA Not Applicable
RPD Relative Percent Difference

The relative percent difference for a pair of duplicate samples is calculated from repetitive runs on sample pairs representative of the types of samples that are analyzed. The RPD provides information on the precision or reproducibility of the actual measurement process. The RPD is calculated for a particular compound from the average using the following formula:

$$RPD(\%) = \frac{\text{Difference} * 100}{\text{Average}}$$

RSD Relative Standard Deviation

The relative standard deviation is reported as a percentage deviation at a particular concentration using the following equation:

$$RSD\ (\%) = \frac{S * 100}{\text{Average}}$$

Definitions

ppbV $= \frac{\text{\# nanomoles cmpd}}{\text{\# moles air}} = \frac{\text{ppbC}}{\text{\# carbons in cmpd}}$

Compound is reported as ppb of compound by Volume

This unit is temperature independent

ug/m^3 $= \text{ppbV} \times \frac{\text{MW compound}}{23.68}$

Compound is reported as ug of a compound in a m^3 of air

23.68 is the molar volume of a gas at 60 ° F and 1 atm pressure

MW = molecular weight

This unit is temperature dependent

ppbC = ppbV x # carbons in compound

ENVIRONMENTAL
Analytical Service Inc.

December 2, 2011
Sample Delivery Group (SDG): 211536

Chris Corpuz
LaCroix Davis, LLC
3685 Mt. Diablo Blvd., Suite 210
Lafayette, CA 94549

Dear Chris,

Enclosed is the *revised SIM* analytical report for the samples received and analyzed by Environmental Analytical Service, Inc. for the following project:

Project Name:	DGS-BOE
Project Number:	2372-02-572
Date Sampled:	11/4/11

If you have any questions on the data please contact me at (805) 781-3585.

Sincerely,

Steve Hoyt
Laboratory Director

SDH/lims

Enclosure

173 Cross Street, San Luis Obispo, CA 93401-7597
805.781.3585 Fax: 805-541-4550

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 01**

Description: **Date Analyzed:** 06/04/10
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	2.50	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 02**

Description: 2372-21-2 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 03**

Description: 2372-21-3 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 04**

Description: 2372-21-4 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 05**

Description: 2372-21-5 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 06**

Description: 2372-21-6 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 07**

Description: 2372-21-7 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 08**

Description: 2372-21-8 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 09**

Description: 2372-21-9 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 10**

Description: 2372-21-10 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 11**

Description: 2372-21-11 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 12**

Description: 2372-21-12 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 13**

Description: 2372-21-13 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	2.10	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	3.90	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 14**

Description: 2372-21-14 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	1.30	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 15**

Description: 2372-21-15 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 16**

Description: 2372-21-16 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 17**

Description: 2372-21-17 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 18**

Description: 2372-2-2 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-Isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 19**

Description: 2372-2-3 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 20**

Description: 2372-2-4 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	9.60	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 21**

Description: 2372-2-5 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 22**

Description: 2372-2-6 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 23**

Description: 2372-2-7 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 24**

Description: 2372-2-8 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 25**

Description: 2372-2-9 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 26**

Description: 2372-2-10 **Date Analyzed:** 11/18/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 27**

Description: 2372-2-11 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 28**

Description: 2372-2-12 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 29**

Description: 2372-2-13 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 30**

Description: 2372-2-14 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	1.70	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND

ANALYTICAL REPORT

ENVIRONMENTAL
Analytical Service, Inc.

EPA Method TO-15 Modified Full Scan GC/MS **SDG: 211536**
Analytical Method: TO-15 Extracted Ion Profile **Laboratory ID: 31**

Description: 2372-2-15 **Date Analyzed:** 11/19/11
Air Volume: 500 ml

CAS#	Compound	MDL PPBV	Amount PPBV	Flag
110-00-9	Furan	1	ND	ND
930-27-8	3-Methylfuran	1	ND	ND
534-22-5	2-Methylfuran	1	ND	ND
3777-69-3	2-Pentylfuran	1	ND	ND
75-85-4	t-Amyl alcohol	1	ND	ND
71-41-0	1-Pentanol	1	ND	ND
6032-29-7	2-Pentanol	1	ND	ND
71-36-3	1-Butanol	1	ND	ND
598-75-4	3-Methyl-2-butanol	1	ND	ND
107-87-9	2-Pentanone	1	ND	ND
591-78-6	3-Hexanone	1	ND	ND
591-78-6	2-Hexanone	1	ND	ND
66-25-1	Hexanal	1	ND	ND
125-51-3	3-Methyl-1-butanol	1	ND	ND
110-43-0	2-Heptanone	1	ND	ND
106-35-4	3-Heptanone	1	ND	ND
18409-17-1	2-Octen-1-ol	1	ND	ND
3391-86-4	1-Octen-3-ol	1	ND	ND
589-98-0	3-Octanol	1	ND	ND
106-68-3	3-Octanone	1	ND	ND
3391-86-4	t-2-octen-1-ol	1	ND	ND
25773-40-4	2-Isopropyl-3-methoxypyrazine	1	ND	ND
2371-42-8	2-Methyl-isoborneol	1	ND	ND
23333-91-7	Geosmin	1	ND	ND
78-83-1	2-Methyl-1-propanol	1	ND	ND
75-65-0	2-Methyl-2-propanol	1	ND	ND